

administered to a human. The preparation of an aqueous composition that contains a protein as an active ingredient is well understood in the art. Typically, such compositions are prepared as injectables, either as liquid solutions or suspensions; solid forms suitable for solution in, or suspension in, liquid prior to injection can also be prepared. The preparation can also be emulsified.

### 3. NASAL DELIVERY

In certain embodiments, the pharmaceutical compositions may be delivered by intranasal sprays, inhalation, and/or other aerosol delivery vehicles. Methods for delivering genes, nucleic acids, and peptide compositions directly to the lungs via nasal aerosol sprays has been described *e.g.*, in U. S. Patent 5,756,353 and U. S. Patent 5,804,212 (each specifically incorporated herein by reference in its entirety). Likewise, the delivery of drugs using intranasal microparticle resins (Takenaga *et al.*, 1998) and lysophosphatidyl-glycerol compounds (U. S. Patent 5,725,871, specifically incorporated herein by reference in its entirety) are also well-known in the pharmaceutical arts. Likewise, transmucosal drug delivery in the form of a polytetrafluoroethylene support matrix is described in U. S. Patent 5,780,045 (specifically incorporated herein by reference in its entirety).

### 4. LIPOSOME-, NANOCAPSULE-, AND MICROPARTICLE-MEDIATED DELIVERY

In certain embodiments, the inventors contemplate the use of liposomes, nanocapsules, microparticles, microspheres, lipid particles, vesicles, and the like, for the introduction of the compositions of the present invention into suitable host cells. In particular, the compositions of the present invention may be formulated for delivery either encapsulated in a lipid particle, a liposome, a vesicle, a nanosphere, or a nanoparticle or the like.

Such formulations may be preferred for the introduction of pharmaceutically-acceptable formulations of the nucleic acids or constructs disclosed herein. The formation and use of liposomes is generally known to those of skill in the art (see for example, Couvreur *et al.*, 1977; Couvreur, 1988; Lasic, 1998; which describes the use of liposomes and nanocapsules in the targeted antibiotic therapy for intracellular bacterial infections and diseases). Recently, liposomes were developed

with improved serum stability and circulation half-times (Gabizon and Papahadjopoulos, 1988; Allen and Choun, 1987; U. S. Patent 5,741,516, specifically incorporated herein by reference in its entirety). Further, various methods of liposome and liposome like preparations as potential drug carriers have been reviewed (Takakura, 5 1998; Chandran *et al.*, 1997; Margalit, 1995; U. S. Patent 5,567,434; U. S. Patent 5,552,157; U. S. Patent 5,565,213; U. S. Patent 5,738,868 and U. S. Patent 5,795,587, each specifically incorporated herein by reference in its entirety).

Liposomes have been used successfully with a number of cell types that are normally resistant to transfection by other procedures including T cell suspensions, 10 primary hepatocyte cultures and PC 12 cells (Renneisen *et al.*, 1990; Muller *et al.*, 1990). In addition, liposomes are free of the DNA length constraints that are typical of viral-based delivery systems. Liposomes have been used effectively to introduce genes, drugs (Heath and Martin, 1986; Heath *et al.*, 1986; Balazsovits *et al.*, 1989; Fresta and Puglisi, 1996), radiotherapeutic agents (Pikul *et al.*, 1987), enzymes (Imaizumi *et al.*, 15 1990a; Imaizumi *et al.*, 1990b), viruses (Faller and Baltimore, 1984), transcription factors and allosteric effectors (Nicolau and Gersonde, 1979) into a variety of cultured cell lines and animals. In addition, several successful clinical trials examining the effectiveness of liposome-mediated drug delivery have been completed (Lopez-Berestein *et al.*, 1985a; 1985b; Coune, 1988; Sculier *et al.*, 1988). Furthermore, several 20 studies suggest that the use of liposomes is not associated with autoimmune responses, toxicity or gonadal localization after systemic delivery (Mori and Fukatsu, 1992).

Liposomes are formed from phospholipids that are dispersed in an aqueous medium and spontaneously form multilamellar concentric bilayer vesicles (also termed multilamellar vesicles (MLVs). MLVs generally have diameters of from 25 25 nm to 4  $\mu$ m. Sonication of MLVs results in the formation of small unilamellar vesicles (SUVs) with diameters in the range of 200 to 500 Å, containing an aqueous solution in the core.

Liposomes bear resemblance to cellular membranes and are contemplated for use in connection with the present invention as carriers for the peptide 30 compositions. They are widely suitable as both water- and lipid-soluble substances can be entrapped, *i.e.* in the aqueous spaces and within the bilayer itself, respectively. It is

possible that the drug-bearing liposomes may even be employed for site-specific delivery of active agents by selectively modifying the liposomal formulation.

In addition to the teachings of 'Couvreur *et al.* (1977; 1988), the following information may be utilized in generating liposomal formulations.

5 Phospholipids can form a variety of structures other than liposomes when dispersed in water, depending on the molar ratio of lipid to water. At low ratios the liposome is the preferred structure. The physical characteristics of liposomes depend on pH, ionic strength and the presence of divalent cations. Liposomes can show low permeability to ionic and polar substances, but at elevated temperatures undergo a phase transition  
10 which markedly alters their permeability. The phase transition involves a change from a closely packed, ordered structure, known as the gel state, to a loosely packed, less-ordered structure, known as the fluid state. This occurs at a characteristic phase-transition temperature and results in an increase in permeability to ions, sugars and drugs.

15 In addition to temperature, exposure to proteins can alter the permeability of liposomes. Certain soluble proteins, such as cytochrome c, bind, deform and penetrate the bilayer, thereby causing changes in permeability. Cholesterol inhibits this penetration of proteins, apparently by packing the phospholipids more tightly. It is contemplated that the most useful liposome formations for antibiotic and  
20 inhibitor delivery will contain cholesterol.

The ability to trap solutes varies between different types of liposomes. For example, MLVs are moderately efficient at trapping solutes, but SUVs are extremely inefficient. SUVs offer the advantage of homogeneity and reproducibility in size distribution, however, and a compromise between size and trapping efficiency is  
25 offered by large unilamellar vesicles (LUVs). These are prepared by ether evaporation and are three to four times more efficient at solute entrapment than MLVs.

In addition to liposome characteristics, an important determinant in entrapping compounds is the physicochemical properties of the compound itself. Polar compounds are trapped in the aqueous spaces and nonpolar compounds bind to the lipid  
30 bilayer of the vesicle. Polar compounds are released through permeation or when the bilayer is broken, but nonpolar compounds remain affiliated with the bilayer unless it is

disrupted by temperature or exposure to lipoproteins. Both types show maximum efflux rates at the phase transition temperature.

Liposomes interact with cells *via* four different mechanisms: endocytosis by phagocytic cells of the reticuloendothelial system such as macrophages  
5 and neutrophils; adsorption to the cell surface, either by nonspecific weak hydrophobic or electrostatic forces, or by specific interactions with cell-surface components; fusion with the plasma cell membrane by insertion of the lipid bilayer of the liposome into the plasma membrane, with simultaneous release of liposomal contents into the cytoplasm; and by transfer of liposomal lipids to cellular or subcellular membranes, or vice versa,  
10 without any association of the liposome contents. It often is difficult to determine which mechanism is operative and more than one may operate at the same time.

The fate and disposition of intravenously injected liposomes depend on their physical properties, such as size, fluidity, and surface charge. They may persist in tissues for h or days, depending on their composition, and half lives in the blood range  
15 from min to several h. Larger liposomes, such as MLVs and LUVs, are taken up rapidly by phagocytic cells of the reticuloendothelial system, but physiology of the circulatory system restrains the exit of such large species at most sites. They can exit only in places where large openings or pores exist in the capillary endothelium, such as the sinusoids of the liver or spleen. Thus, these organs are the predominate site of  
20 uptake. On the other hand, SUVs show a broader tissue distribution but still are sequestered highly in the liver and spleen. In general, this *in vivo* behavior limits the potential targeting of liposomes to only those organs and tissues accessible to their large size. These include the blood, liver, spleen, bone marrow, and lymphoid organs.

Targeting is generally not a limitation in terms of the present invention.  
25 However, should specific targeting be desired, methods are available for this to be accomplished. Antibodies may be used to bind to the liposome surface and to direct the antibody and its drug contents to specific antigenic receptors located on a particular cell-type surface. Carbohydrate determinants (glycoprotein or glycolipid cell-surface components that play a role in cell-cell recognition, interaction and adhesion) may also  
30 be used as recognition sites as they have potential in directing liposomes to particular cell types. Mostly, it is contemplated that intravenous injection of liposomal preparations would be used, but other routes of administration are also conceivable.



Alternatively, the invention provides for pharmaceutically-acceptable nanocapsule formulations of the compositions of the present invention. Nanocapsules can generally entrap compounds in a stable and reproducible way (Henry-Michelland *et al.*, 1987; Quintanar-Guerrero *et al.*, 1998; Douglas *et al.*, 1987). To avoid side effects due to intracellular polymeric overloading, such ultrafine particles (sized around 0.1  $\mu\text{m}$ ) should be designed using polymers able to be degraded *in vivo*. Biodegradable polyalkyl-cyanoacrylate nanoparticles that meet these requirements are contemplated for use in the present invention. Such particles may be easily made, as described (Couvreux *et al.*, 1980; 1988; zur Muhlen *et al.*, 1998; Zambaux *et al.* 1998; Pinto-Alphandry *et al.*, 1995 and U. S. Patent 5,145,684, specifically incorporated herein by reference in its entirety).

#### VACCINES

In certain preferred embodiments of the present invention, vaccines are provided. The vaccines will generally comprise one or more pharmaceutical compositions, such as those discussed above, in combination with an immunostimulant. An immunostimulant may be any substance that enhances or potentiates an immune response (antibody and/or cell-mediated) to an exogenous antigen. Examples of immunostimulants include adjuvants, biodegradable microspheres (*e.g.*, polylactic galactide) and liposomes (into which the compound is incorporated; *see e.g.*, Fullerton, U.S. Patent No. 4,235,877). Vaccine preparation is generally described in, for example, M.F. Powell and M.J. Newman, eds., "Vaccine Design (the subunit and adjuvant approach)," Plenum Press (NY, 1995). Pharmaceutical compositions and vaccines within the scope of the present invention may also contain other compounds, which may be biologically active or inactive. For example, one or more immunogenic portions of other tumor antigens may be present, either incorporated into a fusion polypeptide or as a separate compound, within the composition or vaccine.

Illustrative vaccines may contain DNA encoding one or more of the polypeptides as described above, such that the polypeptide is generated *in situ*. As noted above, the DNA may be present within any of a variety of delivery systems known to those of ordinary skill in the art, including nucleic acid expression systems, bacteria and viral expression systems. Numerous gene delivery techniques are well

known in the art, such as those described by Rolland, *Crit. Rev. Therap. Drug Carrier Systems* 15:143-198, 1998, and references cited therein. Appropriate nucleic acid expression systems contain the necessary DNA sequences for expression in the patient (such as a suitable promoter and terminating signal). Bacterial delivery systems involve the administration of a bacterium (such as *Bacillus-Calmette-Guerrin*) that expresses an immunogenic portion of the polypeptide on its cell surface or secretes such an epitope. In a preferred embodiment, the DNA may be introduced using a viral expression system (e.g., vaccinia or other pox virus, retrovirus, or adenovirus), which may involve the use of a non-pathogenic (defective), replication competent virus. Suitable systems are disclosed, for example, in Fisher-Hoch *et al.*, *Proc. Natl. Acad. Sci. USA* 86:317-321, 1989; Flexner *et al.*, *Ann. N.Y. Acad. Sci.* 569:86-103, 1989; Flexner *et al.*, *Vaccine* 8:17-21, 1990; U.S. Patent Nos. 4,603,112, 4,769,330, and 5,017,487; WO 89/01973; U.S. Patent No. 4,777,127; GB 2,200,651; EP 0,345,242; WO 91/02805; Berkner, *Biotechniques* 6:616-627, 1988; Rosenfeld *et al.*, *Science* 252:431-434, 1991; Kolls *et al.*, *Proc. Natl. Acad. Sci. USA* 91:215-219, 1994; Kass-Eisler *et al.*, *Proc. Natl. Acad. Sci. USA* 90:11498-11502, 1993; Guzman *et al.*, *Circulation* 88:2838-2848, 1993; and Guzman *et al.*, *Cir. Res.* 73:1202-1207, 1993. Techniques for incorporating DNA into such expression systems are well known to those of ordinary skill in the art. The DNA may also be "naked," as described, for example, in Ulmer *et al.*, *Science* 259:1745-1749, 1993 and reviewed by Cohen, *Science* 259:1691-1692, 1993. The uptake of naked DNA may be increased by coating the DNA onto biodegradable beads, which are efficiently transported into the cells. It will be apparent that a vaccine may comprise both a polynucleotide and a polypeptide component. Such vaccines may provide for an enhanced immune response.

It will be apparent that a vaccine may contain pharmaceutically acceptable salts of the polynucleotides and polypeptides provided herein. Such salts may be prepared from pharmaceutically acceptable non-toxic bases, including organic bases (e.g., salts of primary, secondary and tertiary amines and basic amino acids) and inorganic bases (e.g., sodium, potassium, lithium, ammonium, calcium and magnesium salts).

While any suitable carrier known to those of ordinary skill in the art may be employed in the vaccine compositions of this invention, the type of carrier will vary

depending on the mode of administration. Compositions of the present invention may be formulated for any appropriate manner of administration, including for example, topical, oral, nasal, intravenous, intracranial, intraperitoneal, subcutaneous or intramuscular administration. For parenteral administration, such as subcutaneous  
5 injection, the carrier preferably comprises water, saline, alcohol, a fat, a wax or a buffer. For oral administration, any of the above carriers or a solid carrier, such as mannitol, lactose, starch, magnesium stearate, sodium saccharine, talcum, cellulose, glucose, sucrose, and magnesium carbonate, may be employed. Biodegradable microspheres (e.g., polylactate polyglycolate) may also be employed as carriers for the  
10 pharmaceutical compositions of this invention. Suitable biodegradable microspheres are disclosed, for example, in U.S. Patent Nos. 4,897,268; 5,075,109; 5,928,647; 5,811,128; 5,820,883; 5,853,763; 5,814,344 and 5,942,252. One may also employ a carrier comprising the particulate-protein complexes described in U.S. Patent No. 5,928,647, which are capable of inducing a class I-restricted cytotoxic T lymphocyte  
15 responses in a host.

Such compositions may also comprise buffers (e.g., neutral buffered saline or phosphate buffered saline), carbohydrates (e.g., glucose, mannose, sucrose or dextrans), mannitol, proteins, polypeptides or amino acids such as glycine, antioxidants, bacteriostats, chelating agents such as EDTA or glutathione, adjuvants (e.g., aluminum  
20 hydroxide), solutes that render the formulation isotonic, hypotonic or weakly hypertonic with the blood of a recipient, suspending agents, thickening agents and/or preservatives. Alternatively, compositions of the present invention may be formulated as a lyophilizate. Compounds may also be encapsulated within liposomes using well known technology.

25 Any of a variety of immunostimulants may be employed in the vaccines of this invention. For example, an adjuvant may be included. Most adjuvants contain a substance designed to protect the antigen from rapid catabolism, such as aluminum hydroxide or mineral oil, and a stimulator of immune responses, such as lipid A, *Bordetella pertussis* or *Mycobacterium tuberculosis* derived proteins. Suitable  
30 adjuvants are commercially available as, for example, Freund's Incomplete Adjuvant and Complete Adjuvant (Difco Laboratories, Detroit, MI); Merck Adjuvant 65 (Merck and Company, Inc., Rahway, NJ); AS-2 (SmithKline Beecham, Philadelphia, PA);

aluminum salts such as aluminum hydroxide gel (alum) or aluminum phosphate; salts of calcium, iron or zinc; an insoluble suspension of acylated tyrosine; acylated sugars; cationically or anionically derivatized polysaccharides; polyphosphazenes; biodegradable microspheres; monophosphoryl lipid A and quil A. Cytokines, such as  
5 GM-CSF or interleukin-2, -7, or -12, may also be used as adjuvants.

Within the vaccines provided herein, the adjuvant composition is preferably designed to induce an immune response predominantly of the Th1 type. High levels of Th1-type cytokines (*e.g.*, IFN- $\gamma$ , TNF $\alpha$ , IL-2 and IL-12) tend to favor the induction of cell mediated immune responses to an administered antigen. In contrast,  
10 high levels of Th2-type cytokines (*e.g.*, IL-4, IL-5, IL-6 and IL-10) tend to favor the induction of humoral immune responses. Following application of a vaccine as provided herein, a patient will support an immune response that includes Th1- and Th2-type responses. Within a preferred embodiment, in which a response is predominantly Th1-type, the level of Th1-type cytokines will increase to a greater extent than the level  
15 of Th2-type cytokines. The levels of these cytokines may be readily assessed using standard assays. For a review of the families of cytokines, see Mosmann and Coffman, *Ann. Rev. Immunol.* 7:145-173, 1989.

Preferred adjuvants for use in eliciting a predominantly Th1-type response include, for example, a combination of monophosphoryl lipid A, preferably 3-  
20 de-O-acylated monophosphoryl lipid A (3D-MPL), together with an aluminum salt. MPL adjuvants are available from Corixa Corporation (Seattle, WA; *see* US Patent Nos. 4,436,727; 4,877,611; 4,866,034 and 4,912,094). CpG-containing oligonucleotides (in which the CpG dinucleotide is unmethylated) also induce a predominantly Th1 response. Such oligonucleotides are well known and are described,  
25 for example, in WO 96/02555, WO 99/33488 and U.S. Patent Nos. 6,008,200 and 5,856,462. Immunostimulatory DNA sequences are also described, for example, by Sato *et al.*, *Science* 273:352, 1996. Another preferred adjuvant is a saponin, preferably QS21 (Aquila Biopharmaceuticals Inc., Framingham, MA), which may be used alone or in combination with other adjuvants. For example, an enhanced system involves the  
30 combination of a monophosphoryl lipid A and saponin derivative, such as the combination of QS21 and 3D-MPL as described in WO 94/00153, or a less reactogenic composition where the QS21 is quenched with cholesterol, as described in WO

96/33739. Other preferred formulations comprise an oil-in-water emulsion and tocopherol. A particularly potent adjuvant formulation involving QS21, 3D-MPL and tocopherol in an oil-in-water emulsion is described in WO 95/17210.

Other preferred adjuvants include Montanide ISA 720 (Seppic, France),  
5 SAF (Chiron, California, United States), ISCOMS (CSL), MF-59 (Chiron), the SBAS series of adjuvants (*e.g.*, SBAS-2 or SBAS-4, available from SmithKline Beecham, Rixensart, Belgium), Detox (Corixa, Hamilton, MT), RC-529 (Corixa, Hamilton, MT) and other aminoalkyl glucosaminide 4-phosphates (AGPs), such as those described in pending U.S. Patent Application Serial Nos. 08/853,826 and 09/074,720, the disclosures  
10 of which are incorporated herein by reference in their entireties.

Any vaccine provided herein may be prepared using well known methods that result in a combination of antigen, immune response enhancer and a suitable carrier or excipient. The compositions described herein may be administered as part of a sustained release formulation (*i.e.*, a formulation such as a capsule, sponge  
15 or gel (composed of polysaccharides, for example) that effects a slow release of compound following administration). Such formulations may generally be prepared using well known technology (*see, e.g.*, Coombes *et al.*, *Vaccine* 14:1429-1438, 1996) and administered by, for example, oral, rectal or subcutaneous implantation, or by implantation at the desired target site. Sustained-release formulations may contain a  
20 polypeptide, polynucleotide or antibody dispersed in a carrier matrix and/or contained within a reservoir surrounded by a rate controlling membrane.

Carriers for use within such formulations are biocompatible, and may also be biodegradable; preferably the formulation provides a relatively constant level of active component release. Such carriers include microparticles of poly(lactide-co-glycolide), polyacrylate, latex, starch, cellulose, dextran and the like. Other delayed-release carriers include supramolecular biovectors, which comprise a non-liquid hydrophilic core (*e.g.*, a cross-linked polysaccharide or oligosaccharide) and, optionally, an external layer comprising an amphiphilic compound, such as a phospholipid (*see e.g.*, U.S. Patent No. 5,151,254 and PCT applications WO 94/20078,  
25 WO/94/23701 and WO 96/06638). The amount of active compound contained within a sustained release formulation depends upon the site of implantation, the rate and expected duration of release and the nature of the condition to be treated or prevented.

Any of a variety of delivery vehicles may be employed within pharmaceutical compositions and vaccines to facilitate production of an antigen-specific immune response that targets tumor cells. Delivery vehicles include antigen presenting cells (APCs), such as dendritic cells, macrophages, B cells, monocytes and  
5 other cells that may be engineered to be efficient APCs. Such cells may, but need not, be genetically modified to increase the capacity for presenting the antigen, to improve activation and/or maintenance of the T cell response, to have anti-tumor effects *per se* and/or to be immunologically compatible with the receiver (*i.e.*, matched HLA haplotype). APCs may generally be isolated from any of a variety of biological fluids  
10 and organs, including tumor and peritumoral tissues, and may be autologous, allogeneic, syngeneic or xenogeneic cells.

Certain preferred embodiments of the present invention use dendritic cells or progenitors thereof as antigen-presenting cells. Dendritic cells are highly potent APCs (Banchereau and Steinman, *Nature* 392:245-251, 1998) and have been shown to  
15 be effective as a physiological adjuvant for eliciting prophylactic or therapeutic antitumor immunity (*see* Timmerman and Levy, *Ann. Rev. Med.* 50:507-529, 1999). In general, dendritic cells may be identified based on their typical shape (stellate *in situ*, with marked cytoplasmic processes (dendrites) visible *in vitro*), their ability to take up, process and present antigens with high efficiency and their ability to activate naïve T  
20 cell responses. Dendritic cells may, of course, be engineered to express specific cell-surface receptors or ligands that are not commonly found on dendritic cells *in vivo* or *ex vivo*, and such modified dendritic cells are contemplated by the present invention. As an alternative to dendritic cells, secreted vesicles antigen-loaded dendritic cells (called exosomes) may be used within a vaccine (*see* Zitvogel *et al.*, *Nature Med.* 4:594-600,  
25 1998).

Dendritic cells and progenitors may be obtained from peripheral blood, bone marrow, tumor-infiltrating cells, peritumoral tissues-infiltrating cells, lymph nodes, spleen, skin, umbilical cord blood or any other suitable tissue or fluid. For example, dendritic cells may be differentiated *ex vivo* by adding a combination of  
30 cytokines such as GM-CSF, IL-4, IL-13 and/or TNF $\alpha$  to cultures of monocytes harvested from peripheral blood. Alternatively, CD34 positive cells harvested from peripheral blood, umbilical cord blood or bone marrow may be differentiated into

dendritic cells by adding to the culture medium combinations of GM-CSF, IL-3, TNF $\alpha$ , CD40 ligand, LPS, flt3 ligand and/or other compound(s) that induce differentiation, maturation and proliferation of dendritic cells.

Dendritic cells are conveniently categorized as "immature" and "mature" cells, which allows a simple way to discriminate between two well characterized phenotypes. However, this nomenclature should not be construed to exclude all possible intermediate stages of differentiation. Immature dendritic cells are characterized as APC with a high capacity for antigen uptake and processing, which correlates with the high expression of Fc $\gamma$  receptor and mannose receptor. The mature phenotype is typically characterized by a lower expression of these markers, but a high expression of cell surface molecules responsible for T cell activation such as class I and class II MHC, adhesion molecules (*e.g.*, CD54 and CD11) and costimulatory molecules (*e.g.*, CD40, CD80, CD86 and 4-1BB).

APCs may generally be transfected with a polynucleotide encoding an ovarian tumor protein (or portion or other variant thereof) such that the ovarian tumor polypeptide, or an immunogenic portion thereof, is expressed on the cell surface. Such transfection may take place *ex vivo*, and a composition or vaccine comprising such transfected cells may then be used for therapeutic purposes, as described herein. Alternatively, a gene delivery vehicle that targets a dendritic or other antigen presenting cell may be administered to a patient, resulting in transfection that occurs *in vivo*. *In vivo* and *ex vivo* transfection of dendritic cells, for example, may generally be performed using any methods known in the art, such as those described in WO 97/24447, or the gene gun approach described by Mahvi *et al.*, *Immunology and cell Biology* 75:456-460, 1997. Antigen loading of dendritic cells may be achieved by incubating dendritic cells or progenitor cells with the ovarian tumor polypeptide, DNA (naked or within a plasmid vector) or RNA; or with antigen-expressing recombinant bacterium or viruses (*e.g.*, vaccinia, fowlpox, adenovirus or lentivirus vectors). Prior to loading, the polypeptide may be covalently conjugated to an immunological partner that provides T cell help (*e.g.*, a carrier molecule). Alternatively, a dendritic cell may be pulsed with a non-conjugated immunological partner, separately or in the presence of the polypeptide.

Vaccines and pharmaceutical compositions may be presented in unit-dose or multi-dose containers, such as sealed ampoules or vials. Such containers are preferably hermetically sealed to preserve sterility of the formulation until use. In general, formulations may be stored as suspensions, solutions or emulsions in oily or aqueous vehicles. Alternatively, a vaccine or pharmaceutical composition may be stored in a freeze-dried condition requiring only the addition of a sterile liquid carrier immediately prior to use.

#### CANCER THERAPY

In further aspects of the present invention, the compositions described herein may be used for immunotherapy of cancer, such as ovarian cancer. Within such methods, pharmaceutical compositions and vaccines are typically administered to a patient. As used herein, a "patient" refers to any warm-blooded animal, preferably a human. A patient may or may not be afflicted with cancer. Accordingly, the above pharmaceutical compositions and vaccines may be used to prevent the development of a cancer or to treat a patient afflicted with a cancer. A cancer may be diagnosed using criteria generally accepted in the art, including the presence of a malignant tumor. Pharmaceutical compositions and vaccines may be administered either prior to or following surgical removal of primary tumors and/or treatment such as administration of radiotherapy or conventional chemotherapeutic drugs. Administration may be by any suitable method, including administration by intravenous, intraperitoneal, intramuscular, subcutaneous, intranasal, intradermal, anal, vaginal, topical and oral routes.

Within certain embodiments, immunotherapy may be active immunotherapy, in which treatment relies on the *in vivo* stimulation of the endogenous host immune system to react against tumors with the administration of immune response-modifying agents (such as polypeptides and polynucleotides as provided herein).

Within other embodiments, immunotherapy may be passive immunotherapy, in which treatment involves the delivery of agents with established tumor-immune reactivity (such as effector cells or antibodies) that can directly or indirectly mediate antitumor effects and does not necessarily depend on an intact host



immune system. Examples of effector cells include T cells as discussed above, T lymphocytes (such as CD8<sup>+</sup> cytotoxic T lymphocytes and CD4<sup>+</sup> T-helper tumor-infiltrating lymphocytes), killer cells (such as Natural Killer cells and lymphokine-activated killer cells), B cells and antigen-presenting cells (such as dendritic cells and macrophages) expressing a polypeptide provided herein. T cell receptors and antibody receptors specific for the polypeptides recited herein may be cloned, expressed and transferred into other vectors or effector cells for adoptive immunotherapy. The polypeptides provided herein may also be used to generate antibodies or anti-idiotypic antibodies (as described above and in U.S. Patent No. 4,918,164) for passive immunotherapy.

Effector cells may generally be obtained in sufficient quantities for adoptive immunotherapy by growth *in vitro*, as described herein. Culture conditions for expanding single antigen-specific effector cells to several billion in number with retention of antigen recognition *in vivo* are well known in the art. Such *in vitro* culture conditions typically use intermittent stimulation with antigen, often in the presence of cytokines (such as IL-2) and non-dividing feeder cells. As noted above, immunoreactive polypeptides as provided herein may be used to rapidly expand antigen-specific T cell cultures in order to generate a sufficient number of cells for immunotherapy. In particular, antigen-presenting cells, such as dendritic, macrophage, monocyte, fibroblast and/or B cells, may be pulsed with immunoreactive polypeptides or transfected with one or more polynucleotides using standard techniques well known in the art. For example, antigen-presenting cells can be transfected with a polynucleotide having a promoter appropriate for increasing expression in a recombinant virus or other expression system. Cultured effector cells for use in therapy must be able to grow and distribute widely, and to survive long term *in vivo*. Studies have shown that cultured effector cells can be induced to grow *in vivo* and to survive long term in substantial numbers by repeated stimulation with antigen supplemented with IL-2 (*see, for example, Cheever et al., Immunological Reviews 157:177, 1997*).

Alternatively, a vector expressing a polypeptide recited herein may be introduced into antigen presenting cells taken from a patient and clonally propagated *ex vivo* for transplant back into the same patient. Transfected cells may be reintroduced

into the patient using any means known in the art, preferably in sterile form by intravenous, intracavitary, intraperitoneal or intratumor administration.

Routes and frequency of administration of the therapeutic compositions described herein, as well as dosage, will vary from individual to individual, and may be readily established using standard techniques. In general, the pharmaceutical compositions and vaccines may be administered by injection (e.g., intracutaneous, intramuscular, intravenous or subcutaneous), intranasally (e.g., by aspiration) or orally. Preferably, between 1 and 10 doses may be administered over a 52 week period. Preferably, 6 doses are administered, at intervals of 1 month, and booster vaccinations may be given periodically thereafter. Alternate protocols may be appropriate for individual patients. A suitable dose is an amount of a compound that, when administered as described above, is capable of promoting an anti-tumor immune response, and is at least 10-50% above the basal (*i.e.*, untreated) level. Such response can be monitored by measuring the anti-tumor antibodies in a patient or by vaccine-dependent generation of cytolytic effector cells capable of killing the patient's tumor cells *in vitro*. Such vaccines should also be capable of causing an immune response that leads to an improved clinical outcome (e.g., more frequent remissions, complete or partial or longer disease-free survival) in vaccinated patients as compared to non-vaccinated patients. In general, for pharmaceutical compositions and vaccines comprising one or more polypeptides, the amount of each polypeptide present in a dose ranges from about 25  $\mu$ g to 5 mg per kg of host. Suitable dose sizes will vary with the size of the patient, but will typically range from about 0.1 mL to about 5 mL.

In general, an appropriate dosage and treatment regimen provides the active compound(s) in an amount sufficient to provide therapeutic and/or prophylactic benefit. Such a response can be monitored by establishing an improved clinical outcome (e.g., more frequent remissions, complete or partial, or longer disease-free survival) in treated patients as compared to non-treated patients. Increases in preexisting immune responses to an ovarian tumor protein generally correlate with an improved clinical outcome. Such immune responses may generally be evaluated using standard proliferation, cytotoxicity or cytokine assays, which may be performed using samples obtained from a patient before and after treatment.

#### CANCER DETECTION AND DIAGNOSIS

In general, a cancer may be detected in a patient based on the presence of one or more ovarian tumor proteins and/or polynucleotides encoding such proteins in a biological sample (for example, blood, sera, sputum urine and/or tumor biopsies) obtained from the patient. In other words, such proteins may be used as markers to indicate the presence or absence of a cancer such as ovarian cancer. In addition, such proteins may be useful for the detection of other cancers. The binding agents provided herein generally permit detection of the level of antigen that binds to the agent in the biological sample. Polynucleotide primers and probes may be used to detect the level of mRNA encoding a tumor protein, which is also indicative of the presence or absence of a cancer. In general, an ovarian tumor sequence should be present at a level that is at least three fold higher in tumor tissue than in normal tissue

There are a variety of assay formats known to those of ordinary skill in the art for using a binding agent to detect polypeptide markers in a sample. See, e.g., Harlow and Lane, *Antibodies: A Laboratory Manual*, Cold Spring Harbor Laboratory, 1988. In general, the presence or absence of a cancer in a patient may be determined by (a) contacting a biological sample obtained from a patient with a binding agent; (b) detecting in the sample a level of polypeptide that binds to the binding agent; and (c) comparing the level of polypeptide with a predetermined cut-off value.

In a preferred embodiment, the assay involves the use of binding agent immobilized on a solid support to bind to and remove the polypeptide from the remainder of the sample. The bound polypeptide may then be detected using a detection reagent that contains a reporter group and specifically binds to the binding agent/polypeptide complex. Such detection reagents may comprise, for example, a binding agent that specifically binds to the polypeptide or an antibody or other agent that specifically binds to the binding agent, such as an anti-immunoglobulin, protein G, protein A or a lectin. Alternatively, a competitive assay may be utilized, in which a polypeptide is labeled with a reporter group and allowed to bind to the immobilized binding agent after incubation of the binding agent with the sample. The extent to which components of the sample inhibit the binding of the labeled polypeptide to the binding agent is indicative of the reactivity of the sample with the immobilized binding agent. Suitable polypeptides for use within such assays include full length ovarian

tumor proteins and portions thereof to which the binding agent binds, as described above.

The solid support may be any material known to those of ordinary skill in the art to which the tumor protein may be attached. For example, the solid support may be a test well in a microtiter plate or a nitrocellulose or other suitable membrane. Alternatively, the support may be a bead or disc, such as glass, fiberglass, latex or a plastic material such as polystyrene or polyvinylchloride. The support may also be a magnetic particle or a fiber optic sensor, such as those disclosed, for example, in U.S. Patent No. 5,359,681. The binding agent may be immobilized on the solid support using a variety of techniques known to those of skill in the art, which are amply described in the patent and scientific literature. In the context of the present invention, the term "immobilization" refers to both noncovalent association, such as adsorption, and covalent attachment (which may be a direct linkage between the agent and functional groups on the support or may be a linkage by way of a cross-linking agent). Immobilization by adsorption to a well in a microtiter plate or to a membrane is preferred. In such cases, adsorption may be achieved by contacting the binding agent, in a suitable buffer, with the solid support for a suitable amount of time. The contact time varies with temperature, but is typically between about 1 hour and about 1 day. In general, contacting a well of a plastic microtiter plate (such as polystyrene or polyvinylchloride) with an amount of binding agent ranging from about 10 ng to about 10  $\mu$ g, and preferably about 100 ng to about 1  $\mu$ g, is sufficient to immobilize an adequate amount of binding agent.

Covalent attachment of binding agent to a solid support may generally be achieved by first reacting the support with a bifunctional reagent that will react with both the support and a functional group, such as a hydroxyl or amino group, on the binding agent. For example, the binding agent may be covalently attached to supports having an appropriate polymer coating using benzoquinone or by condensation of an aldehyde group on the support with an amine and an active hydrogen on the binding partner (*see, e.g.*, Pierce Immunotechnology Catalog and Handbook, 1991, at A12-A13).

In certain embodiments, the assay is a two-antibody sandwich assay. This assay may be performed by first contacting an antibody that has been immobilized

on a solid support, commonly the well of a microtiter plate, with the sample, such that polypeptides within the sample are allowed to bind to the immobilized antibody. Unbound sample is then removed from the immobilized polypeptide-antibody complexes and a detection reagent (preferably a second antibody capable of binding to a different site on the polypeptide) containing a reporter group is added. The amount of detection reagent that remains bound to the solid support is then determined using a method appropriate for the specific reporter group.

More specifically, once the antibody is immobilized on the support as described above, the remaining protein binding sites on the support are typically blocked. Any suitable blocking agent known to those of ordinary skill in the art, such as bovine serum albumin or Tween 20™ (Sigma Chemical Co., St. Louis, MO). The immobilized antibody is then incubated with the sample, and polypeptide is allowed to bind to the antibody. The sample may be diluted with a suitable diluent, such as phosphate-buffered saline (PBS) prior to incubation. In general, an appropriate contact time (*i.e.*, incubation time) is a period of time that is sufficient to detect the presence of polypeptide within a sample obtained from an individual with ovarian cancer. Preferably, the contact time is sufficient to achieve a level of binding that is at least about 95% of that achieved at equilibrium between bound and unbound polypeptide. Those of ordinary skill in the art will recognize that the time necessary to achieve equilibrium may be readily determined by assaying the level of binding that occurs over a period of time. At room temperature, an incubation time of about 30 minutes is generally sufficient.

Unbound sample may then be removed by washing the solid support with an appropriate buffer, such as PBS containing 0.1% Tween 20™. The second antibody, which contains a reporter group, may then be added to the solid support. Preferred reporter groups include those groups recited above.

The detection reagent is then incubated with the immobilized antibody-polypeptide complex for an amount of time sufficient to detect the bound polypeptide. An appropriate amount of time may generally be determined by assaying the level of binding that occurs over a period of time. Unbound detection reagent is then removed and bound detection reagent is detected using the reporter group. The method employed for detecting the reporter group depends upon the nature of the reporter

group. For radioactive groups, scintillation counting or autoradiographic methods are generally appropriate. Spectroscopic methods may be used to detect dyes, luminescent groups and fluorescent groups. Biotin may be detected using avidin, coupled to a different reporter group (commonly a radioactive or fluorescent group or an enzyme).

- 5 Enzyme reporter groups may generally be detected by the addition of substrate (generally for a specific period of time), followed by spectroscopic or other analysis of the reaction products.

To determine the presence or absence of a cancer, such as ovarian cancer, the signal detected from the reporter group that remains bound to the solid support is generally compared to a signal that corresponds to a predetermined cut-off value. In one preferred embodiment, the cut-off value for the detection of a cancer is the average mean signal obtained when the immobilized antibody is incubated with samples from patients without the cancer. In general, a sample generating a signal that is three standard deviations above the predetermined cut-off value is considered positive for the cancer. In an alternate preferred embodiment, the cut-off value is determined using a Receiver Operator Curve, according to the method of Sackett *et al.*, *Clinical Epidemiology: A Basic Science for Clinical Medicine*, Little Brown and Co., 1985, p. 106-7. Briefly, in this embodiment, the cut-off value may be determined from a plot of pairs of true positive rates (*i.e.*, sensitivity) and false positive rates (100%-specificity) that correspond to each possible cut-off value for the diagnostic test result. The cut-off value on the plot that is the closest to the upper left-hand corner (*i.e.*, the value that encloses the largest area) is the most accurate cut-off value, and a sample generating a signal that is higher than the cut-off value determined by this method may be considered positive. Alternatively, the cut-off value may be shifted to the left along the plot, to minimize the false positive rate, or to the right, to minimize the false negative rate. In general, a sample generating a signal that is higher than the cut-off value determined by this method is considered positive for a cancer.

In a related embodiment, the assay is performed in a flow-through or strip test format, wherein the binding agent is immobilized on a membrane, such as nitrocellulose. In the flow-through test, polypeptides within the sample bind to the immobilized binding agent as the sample passes through the membrane. A second, labeled binding agent then binds to the binding agent-polypeptide complex as a solution

containing the second binding agent flows through the membrane. The detection of bound second binding agent may then be performed as described above. In the strip test format, one end of the membrane to which binding agent is bound is immersed in a solution containing the sample. The sample migrates along the membrane through a region containing second binding agent and to the area of immobilized binding agent. Concentration of second binding agent at the area of immobilized antibody indicates the presence of a cancer. Typically, the concentration of second binding agent at that site generates a pattern, such as a line, that can be read visually. The absence of such a pattern indicates a negative result. In general, the amount of binding agent immobilized on the membrane is selected to generate a visually discernible pattern when the biological sample contains a level of polypeptide that would be sufficient to generate a positive signal in the two-antibody sandwich assay, in the format discussed above. Preferred binding agents for use in such assays are antibodies and antigen-binding fragments thereof. Preferably, the amount of antibody immobilized on the membrane ranges from about 25 ng to about 1  $\mu$ g, and more preferably from about 50 ng to about 500 ng. Such tests can typically be performed with a very small amount of biological sample.

Of course, numerous other assay protocols exist that are suitable for use with the tumor proteins or binding agents of the present invention. The above descriptions are intended to be exemplary only. For example, it will be apparent to those of ordinary skill in the art that the above protocols may be readily modified to use ovarian tumor polypeptides to detect antibodies that bind to such polypeptides in a biological sample. The detection of such ovarian tumor protein specific antibodies may correlate with the presence of a cancer.

A cancer may also, or alternatively, be detected based on the presence of T cells that specifically react with an ovarian tumor protein in a biological sample. Within certain methods, a biological sample comprising CD4<sup>+</sup> and/or CD8<sup>+</sup> T cells isolated from a patient is incubated with an ovarian tumor polypeptide, a polynucleotide encoding such a polypeptide and/or an APC that expresses at least an immunogenic portion of such a polypeptide, and the presence or absence of specific activation of the T cells is detected. Suitable biological samples include, but are not limited to, isolated T cells. For example, T cells may be isolated from a patient by routine techniques (such

as by Ficoll/Hypaque density gradient centrifugation of peripheral blood lymphocytes). T cells may be incubated *in vitro* for 2-9 days (typically 4 days) at 37°C with polypeptide (*e.g.*, 5 - 25 µg/ml). It may be desirable to incubate another aliquot of a T cell sample in the absence of ovarian tumor polypeptide to serve as a control. For  
5 CD4<sup>+</sup> T cells, activation is preferably detected by evaluating proliferation of the T cells. For CD8<sup>+</sup> T cells, activation is preferably detected by evaluating cytolytic activity. A level of proliferation that is at least two fold greater and/or a level of cytolytic activity that is at least 20% greater than in disease-free patients indicates the presence of a cancer in the patient.

10 As noted above, a cancer may also, or alternatively, be detected based on the level of mRNA encoding an ovarian tumor protein in a biological sample. For example, at least two oligonucleotide primers may be employed in a polymerase chain reaction (PCR) based assay to amplify a portion of an ovarian tumor cDNA derived from a biological sample, wherein at least one of the oligonucleotide primers is specific  
15 for (*i.e.*, hybridizes to) a polynucleotide encoding the ovarian tumor protein. The amplified cDNA is then separated and detected using techniques well known in the art, such as gel electrophoresis. Similarly, oligonucleotide probes that specifically hybridize to a polynucleotide encoding an ovarian tumor protein may be used in a hybridization assay to detect the presence of polynucleotide encoding the tumor protein  
20 in a biological sample.

To permit hybridization under assay conditions, oligonucleotide primers and probes should comprise an oligonucleotide sequence that has at least about 60%, preferably at least about 75% and more preferably at least about 90%, identity to a portion of a polynucleotide encoding an ovarian tumor protein that is at least 10  
25 nucleotides, and preferably at least 20 nucleotides, in length. Preferably, oligonucleotide primers and/or probes hybridize to a polynucleotide encoding a polypeptide described herein under moderately stringent conditions, as defined above. Oligonucleotide primers and/or probes which may be usefully employed in the diagnostic methods described herein preferably are at least 10-40 nucleotides in length.  
30 In a preferred embodiment, the oligonucleotide primers comprise at least 10 contiguous nucleotides, more preferably at least 15 contiguous nucleotides, of a DNA molecule having a sequence recited in SEQ ID NOs:1-222. Techniques for both PCR based



assays and hybridization assays are well known in the art (*see, for example, Mullis et al., Cold Spring Harbor Symp. Quant. Biol., 51:263, 1987; Erlich ed., PCR Technology, Stockton Press, NY, 1989*).

One preferred assay employs RT-PCR, in which PCR is applied in  
5 conjunction with reverse transcription. Typically, RNA is extracted from a biological sample, such as biopsy tissue, and is reverse transcribed to produce cDNA molecules. PCR amplification using at least one specific primer generates a cDNA molecule, which may be separated and visualized using, for example, gel electrophoresis. Amplification may be performed on biological samples taken from a test patient and  
10 from an individual who is not afflicted with a cancer. The amplification reaction may be performed on several dilutions of cDNA spanning two orders of magnitude. A two-fold or greater increase in expression in several dilutions of the test patient sample as compared to the same dilutions of the non-cancerous sample is typically considered positive.

15 In another embodiment, the compositions described herein may be used as markers for the progression of cancer. In this embodiment, assays as described above for the diagnosis of a cancer may be performed over time, and the change in the level of reactive polypeptide(s) or polynucleotide(s) evaluated. For example, the assays may be performed every 24-72 hours for a period of 6 months to 1 year, and thereafter  
20 performed as needed. In general, a cancer is progressing in those patients in whom the level of polypeptide or polynucleotide detected increases over time. In contrast, the cancer is not progressing when the level of reactive polypeptide or polynucleotide either remains constant or decreases with time.

Certain *in vivo* diagnostic assays may be performed directly on a tumor.  
25 One such assay involves contacting tumor cells with a binding agent. The bound binding agent may then be detected directly or indirectly via a reporter group. Such binding agents may also be used in histological applications. Alternatively, polynucleotide probes may be used within such applications.

As noted above, to improve sensitivity, multiple ovarian tumor protein  
30 markers may be assayed within a given sample. It will be apparent that binding agents specific for different proteins provided herein may be combined within a single assay. Further, multiple primers or probes may be used concurrently. The selection of tumor

protein markers may be based on routine experiments to determine combinations that results in optimal sensitivity. In addition, or alternatively, assays for tumor proteins provided herein may be combined with assays for other known tumor antigens.

#### DIAGNOSTIC KITS

5           The present invention further provides kits for use within any of the above diagnostic methods. Such kits typically comprise two or more components necessary for performing a diagnostic assay. Components may be compounds, reagents, containers and/or equipment. For example, one container within a kit may contain a monoclonal antibody or fragment thereof that specifically binds to an ovarian  
10 tumor protein. Such antibodies or fragments may be provided attached to a support material, as described above. One or more additional containers may enclose elements, such as reagents or buffers, to be used in the assay. Such kits may also, or alternatively, contain a detection reagent as described above that contains a reporter group suitable for direct or indirect detection of antibody binding.

15           Alternatively, a kit may be designed to detect the level of mRNA encoding an ovarian tumor protein in a biological sample. Such kits generally comprise at least one oligonucleotide probe or primer, as described above, that hybridizes to a polynucleotide encoding an ovarian tumor protein. Such an oligonucleotide may be used, for example, within a PCR or hybridization assay. Additional components that  
20 may be present within such kits include a second oligonucleotide and/or a diagnostic reagent or container to facilitate the detection of a polynucleotide encoding an ovarian tumor protein.

The following Examples are offered by way of illustration and not by way of limitation.

EXAMPLE 1

## IDENTIFICATION OF CDNAS ENCODING OVARIAN AND ENDOMETRIAL TUMOR PROTEINS

An ovarian/endometrial tumor cell line subtracted library was constructed. A library was prepared from endometrial and ovarian tumor cell lines: EndoTL 391-73 (100% undifferentiated endometrial carcinoma), OTL 298-95 (100% moderately differentiated papillary serous ovarian adenocarcinoma) and OTL 522-24 (30% mesothelial cells/70% poorly differentiated metastatic ovarian adenocarcinoma). This library was subtracted with liver, pancreas, skin, bone marrow, resting PBMC, stomach, and brain cDNA and spiked with eukaryotic elongation factor 1 $\alpha$ . Resulting cDNA was cloned into the pcDNA3.1(+) (Invitrogen) vector to generate the ovarian tumor cell line subtraction 4 library (OTCLS4). The OTCLS4 library contained 117,200 clones (background 58,400), with a 1333 bp average insert size (inserts ranged from 200 to 5650 bp).

Thirty clones were sequenced. Of these 12 were full length. The clones may be grouped as follows (SEQ ID NOs are provided in Table 2):

- 7 Novel
- 4 Homo sapiens aldehyde dehydrogenase 6 (ALDH6) mRNA
- 3 Human ferritin heavy chain mRNA, complete cds
- 2 Human lysyl oxidase gene, partial cds
- 2 Human mitochondrion, complete genome
- 1 Homo sapiens aldehyde reductase 1 (low Km aldose reductase) ALDR1) mRNA
- 1 Homo sapiens chromosome 11q12.2 PAC clone pDJ519o13
- 1 Homo sapiens chromosome-associated polypeptide C (CAP-C) mRNA
- 1 Homo sapiens clone 24452 mRNA sequence
- 1 Homo sapiens dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2) (DPP4 mRNA)
- 1 Homo sapiens guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1 (GNB2L1), mRNA
- 1 Homo sapiens heat shock 27kD protein 1 (HSPB1) mRNA
- 1 Homo sapiens homeo box B2 (HOXB2) mRNA

- 1 Homo sapiens mRNA for KIAA0865 protein, partial cds
- 1 Homo sapiens mRNA; cDNA DKFZp564A2416 (from clone DKFZp564A2416)
- 1 Homo sapiens NADH-ubiquinone oxidoreductase 39kDA subunit mRNA,  
5 nuclear gene encoding mitochondrial protein, complete cds
- 1 Homo sapiens Sk/Dkk-1 protein precursor, mRNA, complete cds
- 1 Homo sapiens sodium channel, nonvoltage-gated 1 alpha (SCNN1A) mRNA
- 1 Homo sapiens SRP1 mRNA, partial sequence
- 1 Homo sapiens zinc finger protein SLUG (SLUG) gene, complete cds
- 10 1 Human 28S ribosomal RNA gene
- 1 Human cofilin mRNA, partial cds
- 1 Human DNA sequence from clone 967N21 on chromosome 20p12.3-13
- 1 Human fibroblast collagenase inhibitor mRNA, complete cds
- 1 Human fibroblast mRNA for aldolase A
- 15 1 Human HepG2 3' region MboI cDNA, clone hmd6a06m3
- 1 Human MAP kinase kinase MEK5c mRNA, complete cds
- 1 Human mRNA for coupling protein G(s) alpha-subunit (alpha-S1)
- 1 Human mRNA for KIAA0026 gene, completecds[gi|4808630|gb|AF100620.1|  
AF100620 Homo sapiens transcription factor-like protein MRGX (MRGX)  
20 mRNA, complete cds
- 1 Human mRNA for KIAA0064 gene, complete cds
- 1 Human mRNA for KIAA0204 gene, complete cds
- 1 Human plasminogen activator inhibitor-1 (PAI-1) mRNA, complete cds
- 1 Human protocadherin 43 mRNA, 3' end of cds for alternative splicing PC43-  
25 12
- 1 Human putative RNA binding protein Koc1 mRNA, complete cds
- 1 Human TCB gene encoding cytosolic thyroid hormone-binding protein,  
complete cds
- 1 Human ubiquitin-homology domain protein PIC1 mRNA, complete cds
- 30

Table 2

## Ovarian/Endometrial Carcinoma Associated cDNA Sequences

Sequence	SEQ ID NO	Comments
32609	36	<i>Homo sapiens</i> aldehyde dehydrogenase 6 (ALDH6) mRNA
32515	4	<i>Homo sapiens</i> aldehyde reductase 1 (low Km aldose reductase) (ALDR1) mRNA
32562	29	<i>Homo sapiens</i> Chromosome 11q12.2 PAC clone pDJ519o13
32523	9	<i>Homo sapiens</i> chromosome-associated polypeptide C (CAP-C) mRNA
32551	24	<i>Homo sapiens</i> clone 24452 mRNA sequence
32518	6	<i>Homo sapiens</i> dipeptidylpeptidase IV (CD26, adenosine deaminase complexing protein 2) (DPP4) mRNA
32534	13	<i>Homo sapiens</i> guanine nucleotide binding protein (G protein), beta polypeptide 2-like 1 (GNB2L1), mRNA
32507	2	<i>Homo sapiens</i> heat shock 27kD protein 1 (HSPB1) mRNA
32533	12	<i>Homo sapiens</i> homeo box B2 (HOXB2) mRNA
32565	20	<i>Homo sapiens</i> mRNA for KIAA0865 protein, partial cds
32553	19	<i>Homo sapiens</i> mRNA; cDNA DKFZp564A2416 (from clone DKFZp564A2416)
32561	28	<i>Homo sapiens</i> NADH-ubiquinone oxidoreductase 39kDa subunit mRNA, nuclear gene encoding mitochondrial protein, complete cds
32510	3	<i>Homo sapiens</i> Sk/Dkk-1 protein precursor, mRNA, complete cds
32546	16	<i>Homo sapiens</i> sodium channel, nonvoltage-gated 1 alpha (SCNN1A) mRNA
32559	27	<i>Homo sapiens</i> SRP1 mRNA, partial sequence
32506	1	<i>Homo sapiens</i> zinc finger protein SLUG gene, complete cds
32519	7	Human 28S ribosomal RNA gene
32602	22	Human cofilin mRNA, partial cds
32569	31	Human DNA sequence from clone 967N21 on chromosome 20p12.3-13
32525	10	Human ferritin heavy chain mRNA, complete cds
32557	26	Human fibroblast collagenase inhibitor mRNA, complete cds
32517	5	Human fibroblast mRNA for aldolase A
32568	30	Human HepG2 3' region MboI cDNA, clone hmd6a06m3
32548	17	Human lysyl oxidase gene, partial cds
32520	8	Human mitochondrion, complete genome
32617	23	Human mRNA for coupling protein G(s) alpha-subunit (alpha-S1)

32572	32	Human mRNA for KIAA0026 gene, complete cds gi 4808630 gb AF100620.1 AF100620 <i>Homo sapiens</i> transcription factor-like protein MRGX (MRGX) mRNA, complete cds
32600	21	Human mRNA for KIAA0064 gene, complete cds
32537	14	Human mRNA for KIAA0204 gene, complete cds
32552	25	Human plasminogen activator inhibitor-1 (PAI-1) mRNA, complete cds
32615	39	Human protocadherin 43 mRNA, 3' end of cds for alternative splicing PC43-12
32613	38	Human putative RNA binding protein Koc1 mRNA, complete cds
32610	37	Human TCB gene encoding cytosolic thyroid hormone-binding protein, complete cds
32539	15	Human ubiquitin-homology domain protein PIC1 mRNA, complete cds
32619	40	Novel
32576	33	Novel
32608	35	Novel
32607	34	Novel
32620	41	Novel
32550	18	Novel
32529	11	Novel

Using the methods outlined above, an additional 162 clones were isolated and sequenced. The cDNA sequences are shown in SEQ ID NO:42-203.

SEQ ID NO:204-209 represent additional clones from the OTCL S4 library. SEQ ID NO:206 (clone 57881), 208 (clone 57884), 107 (clone R0199:A07) and 80 (clone R0198:F02) represent novel sequences. The remaining sequences are shown in Table 3, which includes additional results from homology searches.

Table 3

Sequence	SEQ ID NO	Comments
57877	204	H. Sapiens novel gene from PAC 117P20, chromosome 1
57879	205	Urokinase plasminogen activator surface receptor (uPAR)
57882	207	Lysophospholipase 1 (LYPA1)
57888	209	IGF-II mRNA binding protein 3 (IMP-3) mRNA
R0198:H03	99	<i>Homo sapiens</i> laminin
R0199:B03	111	Human cyclin protein gene, complete cds
R0200:A12	158	<i>Homo sapiens</i> monocarboxylate transporter (MCT3) mRNA
R0199:C12	125	Unigene: Hs93379
R0200:A10	157	Human mRNA for KIAA0101 gene, complete cds
R0198:D01	61	Unigene: Hs42116
R0200:C02	164	Human proliferating cell nuclear antigen (PCNA) gene
R0200:G02	193	<i>Homo sapiens</i> Xq28 BAC RP5-1014016

EXAMPLE 2

## 5 ANALYSIS OF CDNA EXPRESSION USING MICROARRAY TECHNOLOGY

In additional studies, sequences disclosed herein were found to be overexpressed in specific tumor tissues as determined by microarray analysis. Using this approach, cDNA sequences are PCR amplified and their mRNA expression profiles in tumor and normal tissues are examined using cDNA microarray technology essentially as described (Shena *et al.*, 1995). In brief, the clones are arrayed onto glass slides as multiple replicas, with each location corresponding to a unique cDNA clone (as many as 5500 clones can be arrayed on a single slide, or chip). Each chip is hybridized with a pair of cDNA probes that are fluorescence-labeled with Cy3 and Cy5, respectively. Typically, 1  $\mu$ g of polyA<sup>+</sup> RNA is used to generate each cDNA probe.

15 After hybridization, the chips are scanned and the fluorescence intensity recorded for both Cy3 and Cy5 channels. There are multiple built-in quality control steps. First, the probe quality is monitored using a panel of ubiquitously expressed genes. Secondly, the control plate also can include yeast DNA fragments of which complementary RNA may be spiked into the probe synthesis for measuring the quality of the probe and the

20 sensitivity of the analysis. Currently, the technology offers a sensitivity of 1 in 100,000

copies of mRNA. Finally, the reproducibility of this technology can be ensured by including duplicated control cDNA elements at different locations.

A total of 428 clones from the OCTLS4 library were analyzed on Ovarian Chip-3. The following table, Table 4, provides a list of probes used to  
 5 interrogate these clones. A total of 16 clones were identified which showed at least 2-fold overexpression in ovarian tumors when compared to non-ovarian essential normal tissues and had a mean non-ovarian essential normal tissue expression of less than 0.2. These clones are represented by SEQ ID NO:204-209 and by SEQ ID NO:61, 99, 111, 125, 157, 158, 164 and 193.

10

Table 4

Tissue	Clone ID	Microarray ID	Tumor information
Ovarian tumor Adrenal gland normal	261A SPACT37	391cy3 391cy5	Stage IIIC
Ovary tumor Skin normal	264A 396A	392cy3 392cy5	Stage IIIC
Ovary tumor Thymus normal	265A SPACT56	393cy3 393cy5	Stage IIIC
Ovary tumor Bronchus normal	288A 600C	394cy3 394cy5	Stage IIIC
Ovary tumor	854A 785B	395cy3 395cy5	
Ovary tumor Bone normal	855A 407B	396cy3 396cy5	Grade III, Stage IA
Ovary tumor Peritoneum epithelium normal	856A 484A	397cy3 397cy5	Serous papillary
Ovary tumor Pituitary gland	603A SPACT52	398cy3 398cy5	Metastatic adenocarcinoma, Grade III, Stage III
Ovary tumor Skeletal muscle normal	857A SPACT40	399cy3 399cy5	Papillary serous cystadenocarcinoma Grade III, Stage IB
Ovary tumor Stomach normal	385A SPACT55	400cy3 400cy5	Papillary serous adenocarcinoma
Ovary tumor Spleen normal	392A SPACT54	401cy3 401cy5	Papillary serous neoplasm, Stage IC
Ovary tumor Pancreas normal	858A 862A	402cy3 402cy5	Papillary serous cystadenocarcinoma Grade II-III, Stage IA



Ovary tumor Ovary normal	859A S27	403cy3 403cy5	Papillary serous adenocarcinoma Grade II-III, Stage IIB
Ovary tumor Spinal cord normal	605A SPACT45	404cy3 404cy5	Serous borderline tumor, stage IIIC
Ovary tumor Heart normal	495A SPAAm1	405cy3 405cy5	Papillary serous carcinoma, Grade II, Stage III
Ovary tumor Ovary normal	381C S7	414cy3 414cy5	Mucinous adenocarcinoma, Grade I, Sage IB
Ovary tumor Ovary normal	382A S449A	416cy3 416cy5	Mucinous adenocarcinoma
Ovary tumor metastases Small intestine normal	428B SPACT53	417cy3 417cy5	Mucinous adenocarcinoma
Ovary tumor Esophagus normal	491A 502B	418cy3 418cy5	Endometriod adenocarcinoma
Ovary tumor Colon normal	335A 199A	419cy3 419cy5	Endometriod adenocarcinoma Grade II, Stage II
Ovary tumor Thyroid gland normal	494A SPACT46	421cy3 421cy5	Adenocarcinoma Grade III, Stage II- III
Ovary tumor P BMC (resting)	860A 783A	42cy3 422cy5	Endometriod adenocarcinoma Grade II-III, Stage IIIC
Ovary tumor Aorta normal	604A 415A	423cy3 423cy5	Clear cell carcinoma
Ovary tumor Trachea normal	607A 776A	424cy3 424cy5	Clear cell, Stage IA
Ovary tumor Trachea normal	S25 CT25	425cy3 425cy5	Granulosa cell tumor, Stage IA
Ovary tumor Pancreas normal pool	S22 PAN2000	426cy3 426cy5	Granulosa cell tumor, Stage IA
Ovary tumor Breast (HMEC) normal	386A S92	427cy3 427cy5	Germ cell tumor, Stage I
Ovary tumor Bladder normal	602A 328B/C	429cy3 429cy5	Papillary serous carcinoma, Grade III, Stage IIIB
Ovary tumor Bone marrow normal	S23 SPACT49	430cy3 430cy5	Papillary serous adenocarcinoma Grade III, Stage IIIC

Ovary tumor Lung normal	606A SPAAm2	428cy3 428cy5	Papillary serous cystadenocarcinoma Grade II, Stage IIIB
Ovary tumor metastases Kidney normal	383A 302B	431cy3 431cy5	Metastatic papillary adenocarcinoma, Grade III, Stage IIIA
Ovary tumor metastases PBMC (activated)	384A S40.782A	423cy3 423cy5	Papillary serous adenocarcinoma Grade II, Stage IIIB
Ovary tumor metastases Ovary tumor match with CY3	426A 603A	433cy3 433cy5	Papillary serous adenocarcinoma Grade III, Stage IIIB
Ovary tumor metastases Liver normal	429A 270B	434cy3 434cy5	Papillary adenocarcinoma Grade III, Stage III
Ovary tumor Brain normal	427A SPACT50	435cy3 435cy5	Papillary serous adenocarcinoma Grade III, Stage IIIC
Ovary tumor Bone normal	855A 407B	436cy3 436cy5	Grade III, Stage IA
Ovary tumor Spinal cord normal	605A SPACT45	437cy3 437cy5	Serous borderline tumor, Stage IIIC
Ovary tumor Heart normal	495A SPAAm1	438cy3 438cy5	Papillary serous carcinoma, Grade II, Stage III
Ovary tumor Ovary normal	381C S7	439cy3 439cy5	Mucinous adenocarcinoma, Grade I, Stage IB

EXAMPLE 3

## SYNTHESIS OF POLYPEPTIDES

- 5 Polypeptides may be synthesized on a Perkin Elmer/Applied Biosystems Division 430A peptide synthesizer using Fmoc chemistry with HPTU (O-Benzotriazole-N,N,N',N'-tetramethyluronium hexafluorophosphate) activation. A Gly-Cys-Gly sequence may be attached to the amino terminus of the peptide to provide a method of conjugation, binding to an immobilized surface, or labeling of the peptide.
- 10 Cleavage of the peptides from the solid support may be carried out using the following cleavage mixture: trifluoroacetic acid:ethanedithiol:thioanisole:water:phenol (40:1:2:2:3). After cleaving for 2 hours, the peptides may be precipitated in cold methyl-t-butyl-ether. The peptide pellets may then be dissolved in water containing 0.1% trifluoroacetic acid (TFA) and lyophilized prior to purification by C18 reverse
- 15 phase HPLC. A gradient of 0%-60% acetonitrile (containing 0.1% TFA) in water (containing 0.1% TFA) may be used to elute the peptides. Following lyophilization of the pure fractions, the peptides may be characterized using electrospray or other types of mass spectrometry and by amino acid analysis.

- From the foregoing it will be appreciated that, although specific
- 20 embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention is not limited except as by the appended claims.

## CLAIMS

What is claimed:

1. An isolated polynucleotide comprising a sequence selected from the group consisting of:

- (a) sequences provided in SEQ ID NO: 1-222;
- (b) complements of the sequences provided in SEQ ID NO: 1-222;
- (c) sequences consisting of at least 20 contiguous residues of a sequence provided in SEQ ID NO: 1-222;
- (d) sequences that hybridize to a sequence provided in SEQ ID NO: 1-222, under moderately stringent conditions;
- (e) sequences having at least 75% identity to a sequence of SEQ ID NO: 1-222;
- (f) sequences having at least 90% identity to a sequence of SEQ ID NO: 1-222; and
- (g) degenerate variants of a sequence provided in SEQ ID NO: 1-222.

2. An isolated polypeptide comprising an amino acid sequence selected from the group consisting of:

- (a) sequences encoded by a polynucleotide of claim 1; and
- (b) sequences having at least 70% identity to a sequence encoded by a polynucleotide of claim 1; and
- (c) sequences having at least 90% identity to a sequence encoded by a polynucleotide of claim 1.

3. An expression vector comprising a polynucleotide of claim 1 operably linked to an expression control sequence.

4. A host cell transformed or transfected with an expression vector according to claim 3.

5. An isolated antibody, or antigen-binding fragment thereof, that specifically binds to a polypeptide of claim 2.

6. A method for detecting the presence of a cancer in a patient, comprising the steps of:

- (a) obtaining a biological sample from the patient;
- (b) contacting the biological sample with a binding agent that binds to a polypeptide of claim 2;
- (c) detecting in the sample an amount of polypeptide that binds to the binding agent; and
- (d) comparing the amount of polypeptide to a predetermined cut-off value and therefrom determining the presence of a cancer in the patient.

7. A fusion protein comprising at least one polypeptide according to claim 2.

8. An oligonucleotide that hybridizes to a sequence recited in SEQ ID NO: 1-222 under moderately stringent conditions.

9. A method for stimulating and/or expanding T cells specific for a tumor protein, comprising contacting T cells with at least one component selected from the group consisting of:

- (a) polypeptides according to claim 2;
- (b) polynucleotides according to claim 1; and
- (c) antigen-presenting cells that express a polypeptide according to claim 2,

under conditions and for a time sufficient to permit the stimulation and/or expansion of T cells.

10. An isolated T cell population, comprising T cells prepared according to the method of claim 9.

11. A composition comprising a first component selected from the group consisting of physiologically acceptable carriers and immunostimulants, and a second component selected from the group consisting of:

- (a) polypeptides according to claim 2;
- (b) polynucleotides according to claim 1;
- (c) antibodies according to claim 5;
- (d) fusion proteins according to claim 7;
- (e) T cell populations according to claim 10; and
- (f) antigen presenting cells that express a polypeptide according to claim 2.

12. A method for stimulating an immune response in a patient, comprising administering to the patient a composition of claim 11.

13. A method for the treatment of a cancer in a patient, comprising administering to the patient a composition of claim 11.

14. A method for determining the presence of a cancer in a patient, comprising the steps of:

- (a) obtaining a biological sample from the patient;
- (b) contacting the biological sample with an oligonucleotide according to claim 8;
- (c) detecting in the sample an amount of a polynucleotide that hybridizes to the oligonucleotide; and
- (d) compare the amount of polynucleotide that hybridizes to the oligonucleotide to a predetermined cut-off value, and therefrom determining the presence of the cancer in the patient.

15. A diagnostic kit comprising at least one oligonucleotide according to claim 8.

16. A diagnostic kit comprising at least one antibody according to claim 5 and a detection reagent, wherein the detection reagent comprises a reporter group.

17. A method for inhibiting the development of a cancer in a patient, comprising the steps of:

(a) incubating CD4+ and/or CD8+ T cells isolated from a patient with at least one component selected from the group consisting of: (i) polypeptides according to claim 2; (ii) polynucleotides according to claim 1; and (iii) antigen presenting cells that express a polypeptide of claim 2, such that T cell proliferate;

(b) administering to the patient an effective amount of the proliferated T cells,

and thereby inhibiting the development of a cancer in the patient.

## SEQUENCE LISTING

<110> Corixa Corporation  
 Xu, Jiangchun  
 Pyle, Ruth  
 Secrist, Heather

<120> COMPOSITIONS AND METHODS FOR THE THERAPY  
 AND DIAGNOSIS OF OVARIAN AND ENDOMETRIAL CANCER

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&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(658)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 13

ctctctcttt	cactgcaagg	cggcggcagg	agaggttggtg	gtgctagttt	ctctaagcca	60
tccagtgccca	tctctgtcgc	tgcagcgaca	cacgctctcg	ccgccgccat	gactgagcag	120
atgacccttc	gtggcaccct	caagggccac	aacggctggg	taaccagat	cgctactacc	180
ccgcagttcc	cggacatgat	cctctccgcc	tctcgagata	agaccatcat	catgtggaaa	240
ctgaccaggg	atgagaccaa	ctatggaatt	ccacagcgtg	ctctgcgggg	tcactccac	300
tttgttagt	atgtggttat	ctcctcagat	ggccagtttg	ccctctcang	ctcctgggat	360
ggaaccctgc	gcctctggga	tctcacaacg	ggcaccacca	cgaggcgatt	tgtgggccat	420
accaaggatg	tgcttgagtg	tggccttctc	tttgacaacc	cggcagattg	ncttttggat	480
ctcnanaata	aaaccatcaa	nctattgaat	accctggng	tggtgcaaat	cccntgtcca	540
ngaaganaac	cncttcanaa	nggggtctt	tgtgmnccnt	ttttnnccca	acncaacaac	600
cctnttattn	nntnccctngg	gttgaaaaan	ctggcnnggn	tnganccggn	tnactggg	658

&lt;210&gt; 14

&lt;211&gt; 686

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(686)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 14

cctttttttt	tttttttttt	tttttttttt	aacattatac	tgncattttt	atcataacaa	60
tataaacaat	ttttatcatc	atcctgaata	ttactttata	aanatatata	ttttaaaagg	120
ntttcaaaac	atttttcaac	ccagcatttg	agaataaaagc	attaagagtt	ttgnatacag	180
taacacattc	atgngataag	ngnatgaatt	tacaaccata	cataatatgg	atatatggat	240
atatatttat	ataaaaaaca	aacttggcca	naagttaaagg	ntacctacna	agttgtccaa	300
gtaaattatg	cttggcaaaa	caattataaa	attcaaatca	cacatgcatt	tttaaatcat	360
ctaaatcact	gcaaacaang	gtcaagcatt	ccaaangttt	taaaatnang	ggggangang	420
ggaanonggc	cctccaannt	taaagggccc	gtttaaaacc	cccttgaccc	ccccccaca	480
ggngnttttt	aactnccncc	catttntggt	gtttgnncnt	ttcncggggg	ccttctttgg	540
cccttggang	ggggccnccc	cccctgggcc	ttccnaaata	aaagggagga	aaanngnntt	600
cccacgnccc	cccccgatg	natnctctcc	tntaaaaaaa	ngggngggnc	gngannctaa	660
nnggagnggt	ttggcnaanc	acttct				686

&lt;210&gt; 15

&lt;211&gt; 725

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(725)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 15

cctttttttt	tttttttgat	ttttacaaat	attgnttatt	ttaatgaagc	tggtacagac	60
aatgtccatt	taaaacccat	atcccaggcc	aaaaagtaca	aataaaatca	aaaagagcag	120
tgttctgntg	tattcatttc	tgatgtata	gctttattaa	ttngctaata	aaaattanaa	180
cttttctggg	atcttctgac	aagattttta	aaaaatctta	aaatgccttt	tcttcagtga	240
aggcactttt	ggagtttcca	ataaaagggg	ccccccctnc	catcttnact	tnaacctgat	300
atntntnttg	tgnggggggg	ggngggngaa	attttaaaaa	tatnttaatt	taaggaaagg	360
ncattttttc	acagtctaa	ttctntgnaa	aacttncatt	ttcccaacga	aagnganagt	420
tnangaannc	ccccnngggc	ncnccccacc	ntgnggggca	anttgnaaan	tnattatnga	480
acncttggt	ttgnttgaat	tnttntngnt	aacgnnnaat	tgctgtnaag	aangctatcg	540
ttntctgtaa	aaaaagggga	aacttttntc	atantntccn	ntannttctt	tttanaaacc	600
ccnacccccc	ctaaatgtga	ncnccgatn	ttttncgggg	gntggatntt	nntcngccct	660
tcnncncccg	cccttttttt	anacgccnat	ttatattttn	taantttatn	taantttctca	720
tntct						725

&lt;210&gt; 16

&lt;211&gt; 196

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(196)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 16

cngaaggtng	cctnaccctt	ggcatcctcc	cctccttccn	acttntgccc	ccaccccatg	60
tctctgtcct	tgctccagcc	aggccctgct	ccctctccag	ccttgacagc	ccctccccc	120
gcctatgcc	ccctggggcc	ccgcccctct	ccaggggggt	ctgcaggggc	cagttcctcc	180
gcctgtctct	tggggg					196

<210> 17  
<211> 667  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(667)  
<223> n = A,T,C or G

<400> 17  
cagccgtgaa actggaaagt ctttttgatg actgatgtga tacatccaga ggtaaaatgc 60  
atttaaacat attaaagtat ttgccaaaga tacaattttc ttgctgacat aaaaatcaca 120  
caaacaagtc ccccccaaac cacaactgtc tctcaaatac cttaaaaaaa ttgaaaaaca 180  
ttttaggatt tttcaagttt tctagatttt aaaaagatgt tcagctatta gaggaatggt 240  
aaaaatttta tattatctag aacacaggaa catcatcctg ggttattcag gaatcagtca 300  
cacatgtgtg tgtgtctgag atatagtcta aattagcaaa gcacatagta ttacatactt 360  
gaggggttgg tgaacaaagg aaaaatatac tttctgcaaa accaangact gtgctgcgta 420  
atgagacagc tgtgatttca tttgaaactg tgaaccatg tgccataata gaattttgag 480  
aattttgctt ttacctaaat tcaagaaaat gaaattacac ttttnagtta gnggnggctt 540  
aacataattt tttctatnnt aaccctgatt naaatctcaa gtaagaattt nccgtggccc 600  
gaaacttggt angggggaat tttaaaaggg cctcgcattc cgggttacat ggcntanaan 660  
tggaagg 667

<210> 18  
<211> 1493  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(1493)  
<223> n = A,T,C or G

<400> 18  
ccccatttct ccattttgtg gaccaagcca tcctgagggc atggacattg tctctgagga 60  
aattggggcc acccttaaga taccaagaaa agctcctgcc catgggccca ctggaaatgg 120  
actctgctga gcaaagccac cagttgaaga gaacagaatc cacacctgca ttgaatacct 180  
gtttctccat gtgtatcgtc tctgagatta ccttcttgcc ctttccaaca ccttagtgat 240  
tcctcaattt ctccccattt gggaaggcca tagggcatta actgaaggaa ctgacctctc 300  
tccttttctt gtacctttaa cctttagtct gtcaaggaaa acccttagga cctctgaatc 360  
aagaggactg agtttgtggg tgaaccttga aggtgctctt tctgctacaa gggccctggg 420  
agatagcatg ggacgtgcat tgagaagcca gcctcagacc ttagcttgaa gcantctgag 480  
gccagacctc ctgtacctca gcattctgct agggagcatg gaagtgatct atcctgccag 540  
gaggcctcag agtgatctgt cctgccagga ggggtgagag tgatctgtcc tgtgaggcat 600  
ttaggggctt taggaattan taaaaggggg agtatgcctt tccagaatct tccatcttcc 660  
tttgganacc tggccttctt cccatttctt cccttttgcc ccaggtanga aggatggagg 720  
gaggnattgtt actnttnccc ttctgggggc cctttctggy ggcctaacc tgncaatttt 780  
anttcnccc tcccttacct ngggatgnng ggnccctttn ccgggattta anccttgggg 840  
ctgggcctta anttttttcc ctttttttcc ccnaaaaaaa aaaaagggg ggggcccccc 900  
ctgnnnnnngi nttttttnaa aatncccccc nngncntnng gncccnccn nccccnntt 960  
tnnttnancc nccccgggg ggtcccnttt ngggggnant tnnnttttna nccnnnnnnn 1020  
ggggnttttt ttttnnnnaa aaantttttt ttnnnnnnnn nnnnnnnnnn nncnnttttn 1080  
nnnnnggggg gnggntnnnn nnttttnann nccccnttt tnnngnnnaa annccnnnnn 1140  
nnnnnggggg gggnnnnnnn nnnnnnnnnn nnnncncccc cnnnnnnnnn nnnnnnnnnn 1200  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1260  
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1320

```

nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1380
nnnnnngnnn cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1440
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnc 1493

```

```

<210> 19
<211> 1602
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1602)
<223> n = A,T,C or G

```

```

<400> 19
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atgtcagtc attgattgtc tttagagagt taatgttaca aaaaagaatt cttaataatc 120
agacaaacat gatctgctga ggacacatgc gctttttagt aatttaacat ctgggtgttt 180
tctgaaaaaa tatatataca tatattgctt tatttgaaac aaattaaaa atgctgcatt 240
tgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 300
aaaanaaaaa aaaaaaaaaa angggggggg cccccccng gnnngnnntt ttgnaaantc 360
cccccccn gapntnggg ncccnacnnc ggccccannt ttantttaan cccncccc 420
cttggggccc cctnnnggg ggggntttna tttccaaan ccccaanng ngggggtnt 480
tnntttcncc aaaaancnnt ttttttnaa accncccc ggaaccccc cccccctt 540
ttcntttaag gggggnggg gntttnttc ccccttttg gaaaancccc ctttttttt 600
tggggggccc aaaaaaac cccctttng naccnnnnan ggggggggg ggggnaanc 660
tttggaaaa ccccccnng gggagngaaa anccccctt tccccccc cctttttgt 720
tttctnngc ccaaaaaacc cntccccn ntgggggann tnggcngng anncnannan 780
cccnnaaaan gnccccccc cccnnnggn gaaaaanncc ccnnaangg gntttnttc 840
ccnggggana aaaanccng gggggggncn tttcccccg tttngnccc naaanggggg 900
gggccccct tggcnnnna aaaacccct tntnncncc ccccgnggg ggggnnttt 960
cccccnaaa ntccccccc ctngccccna angggaaaac ccccnngng ggtcccttn 1020
gggncccc cnnnttttt cccccnggg gcggggggng nngggggga nccccgng 1080
gggcctttcc nnnngtttt cncnccncc cctntnnng ggtgaaann accccccn 1140
ngnntntn ancccccn nannngncc ccnnttttg tccccccn cngaanncn 1200
acccccccc ccanntttt ttggnnnng gncncccc gngnntntt ncccccccc 1260
cccccccc cgggggngn ggnnttttt gnnnnnnnn nccccnggg gggngcccc 1320
nccccncc ggnntttgg ngnncccc ctntttnt tnnnccncc ccccccccc 1380
cgcentttn gnggngngn nnnnngcn cccctnnn gntcnntnt cccccncc 1440
nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn cnnnnnnnn nnnnnntnc 1500
ncnngcnn tcnnnnnnn nnnnnnnnn nnnnnnnnn nngnngngn nnnnnnccn 1560
nnnncnnnn nnnngcnnn ngnnngcnc cgccnccn cc 1602

```

```

<210> 20
<211> 1633
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1633)
<223> n = A,T,C or G

```

```

<400> 20
agcagccag ccatcagccc ctgaatccac ctacccact cgccagacct tttgtcgaa 60
gttcattgcc ttccttagcc ttccaatgaa gcctctacct gcctgagatg tccaaggtaa 120
tccatcagct gaggtctca gagaatgaaa gtgtggcct gcaggaaactc ttggactgga 180
ggagaaaact ctgtgaggaa ggacaagact ggcagcagat cctgcaccac gctgagccca 240

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gggtgcctcc	cccaccacct	tgcaagaagc	ccagccttct	gaagaagcgc	gaaggggcct	300
cctgcaacag	gctgccgtct	gagctctggg	acaccaccat	ttgatgtggc	ctgaactgca	360
gacttacaaa	atagaactgc	ctactgattc	cgggctgcaa	caacagaagg	ctgccttctg	420
acatgcgctg	gggctttctt	ccacgcattt	agacaaaaaa	agcacaggac	acagacacta	480
aataatagag	atcccggtgtg	tgtgtgtgtg	tgtttgtgtg	tgtgtgtgtg	ggttctttct	540
tatccatctc	gngngatac	actctgattt	tcaagctcct	catttacggg	tcttgtgcta	600
cccctaggta	ncaagaaaaa	aggctgggaa	aaagtgtggg	cgtggncnan	agcgananaa	660
gtancggng	gaaaggagcn	antccatgca	cacttctgta	ccngtngttt	ttntacngg	720
ntcaaacagg	nntgnntnat	tggncnttnc	caangggggg	ttnttttant	aannaccnng	780
nnntnncngg	gganaanan	nannnnnnna	nnnnnnnttt	nggnnnnccn	cccttggggg	840
ggnnnnantt	ggggcncnct	cncctcccc	cctcncnccc	ccctccccct	tcaennccgc	900
ncnccntnnn	ccncggcgcn	ncctcncntc	nnccnccnnn	ntcgncccn	nngngggggg	960
gcggggngn	ncctcncctc	ncctcncnnn	cccccccn	cncnncn	ncnccnccc	1020
cncnccncc	nnnnccnccc	ccnccnccc	ccccccnnn	nnnnnnnnn	nnnnnnnnn	1080
ncnnccccc	ccccccnccc	ccccccncc	ccnnnnnnn	nnnnnnnnn	nnnnnnnnn	1140
nnnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnnggggcn	ngnnnnnnn	nnnnnnnnn	1200
nnnnnnnnn	ncccccccc	cnnnnnnnn	nnnnnnnnn	ccccccn	nnngnnccn	1260
nnnnnnngn	ngngggggn	gnnnnnnnn	nnnnnnnnn	nnngnnnnng	nnnnnnnnn	1320
nnnnnnnnng	ggnnnnnnn	nnnnnnnnn	nnnnnnnnng	nnnnnnngn	nnnnnnnnn	1380
ngnnnnnnn	nnnnnnnnn	nnnnnnnnn	nnngnnnnn	nnnnnnnnn	nnnnnnngn	1440
nnnnnnnnn	ncgcncccc	cgnnccnnn	nnnnngnnn	nnnnnnnnn	nnnnnnnnn	1500
nnnnnnnnn	nnnnnnnnng	gggnngcgg	ngnnggggn	nnngggnnn	nnnnnnnnn	1560
cncccccn	nnnnnnnnn	nnnnnnnnn	nnnnngnnn	nnngnnnnng	nnnnnnccn	1620
nncccccn	nnn					1633

&lt;210&gt; 21

&lt;211&gt; 1462

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1462)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 21

gggctcccaa	aatggcgaag	tgaggctgcg	gggactcgct	gagcagcgga	gggggagcgt	60
gcagagccgc	tgcgccctc	acagtcggga	gcccggccgt	gccgtgccgt	agggaaacatg	120
cacttttcca	ttcccgaaac	cgagtcgccg	agcggggaca	gcgcggcgtc	cgctacgtg	180
gcctataaca	ttcacgtgaa	tgagtcctg	cactgtcggg	tgcgctacag	ccagctcctg	240
gggctgcacg	agcagcttcg	gaaggagtat	ggggccaatg	tgcttcctgc	attcccccca	300
aagaagcttt	tctctctgac	tctgtctgag	gtagaacaga	ggagagagca	gttagagaag	360
tacatgcaag	ctgttcggca	agaccattg	cttgggagca	gcgagacttt	caacagtttc	420
ctgcgtcggg	cacaacagga	gacacagcag	gtccccacag	aggaagtgtc	cttggaagtg	480
ctgctcagca	acgggcagaa	agttctggtc	aacgtgctaa	cttcagatca	gactgaggat	540
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ctattcttag	ttcgagaaaa	agaggatgga	gccttttctt	ttgtacngaa	gttgcaanaa	660
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gaaganttat	tgggactctc	ctatgatnac	natnatgga	naaccgggtt	ggccttnaac	780
cttctttttg	ctcanacggt	nttaaaatat	ttagncgngg	ggngggatct	ttggtcaccc	840
aaggaaaaan	nacccggnaa	ntttaaaatt	ttttgnnaaa	aaaaaaannn	ttccnaaaaa	900
gggaatttct	ttnaaanttg	gccccaaaana	ccttngngnn	cttngngnn	ntttgnnctt	960
ttanncccn	nngggggngg	ntttncnna	aaaaaaattt	nttttnnngg	gnnnnnnnn	1020
nncaannnna	annnnnnnnn	nnnncccn	cngngnnnnn	nnntnnaaag	nttttnnng	1080
gnncccnnaa	aatngggggg	ncnntttttt	ntttncn	nnnnnnnnn	nnnnnnnggg	1140
ggggggggnc	ccnnnnnttt	ttnnnnnnnn	nnnnnnnnn	nnnnccnncc	ccnnntnnaa	1200
annnnnnnnn	nnnnnnnnnn	aannnnnnnn	nnnnnnnnnn	nngggggggg	nnnnnnnnnn	1260
nnnnnnnnnc	ccnnnnnnnn	ncnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	1320

```

nnnnnnnnnt ntntngnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gnnnnnnnnn 1380
tnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1440
nnnnnnnnnn nnnnnnaaaa an 1462

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&lt;210&gt; 22

&lt;211&gt; 1601

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1601)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 22

```

cccgaagcac gacgcagagc ctccgggtgtg gctgtctctg atgggtgtcat caaggtgttc 60
aacgacatga aggtgcgtaa gtcttcaacg ccagaggagg tgaagaagcg caagaaggcg 120
gtgctcttct gcttgagtga ggacaagaag aacatcatcc tggaggaggg caaggagatc 180
ctgggtggcg atgtgggcca gactgtcgac gaccctacg ccaccttgt caagatgctg 240
ccagataagg actgccccta tgccctctat gatgcaacct atgagaccaa ggagagcaag 300
aaggaggatc tgggttttat ctctctggcc cccgagtctg cggcccttaa gagcaaatg 360
atttatgcca gctccaagga cgccatcaag aagaagctga cagggatcaa gcatgaattg 420
caagcaaaact gctacgaaga ggtcaaggac cgctgcaccc tgcagaaaan ctggggggca 480
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ccttcccana accggaaggg gcttgggggg gatccccan caggggggga aggggcnant 660
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nttnttccc tttccatncc cntttngcng gggtnttng gncctttcc ccnaaantg 780
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naancccnna nngtntnccc ccccccccn ngggcccccc ccccccnnt ntntnnnnng 900
gggggggggn aaanccccc nnnnnnnnnn nnnnnnnnnn nnaaaaaaa aannantnccn 960
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nngnnnnntt ttnncntnt nttnnnnnnn nnnnnnnnnn nnnnnnanta nnaaannnnn 1140
nnnngnnaaa acnatcccc ctnccttttn ccccnnggn ncnnnnncc ttnccccnn 1200
nnnnnnnnnn ttttncnng nnnncnnnaa nggcncttn nntnaannn nccccctccc 1260
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gccgtccgcc cgcgccccc nctcccnctc cccgcgctcn ctnccttenc tctcncgcg 1440
gccccgcgcg cgcgcgcgct cgnegtcnc ncnncnncc cennnnnnnn nnnnngnnnn 1500
ananaagunc nccnaccnat cccccccgc nccccccnt nccgnnnnng nnnnnnnnng 1560
nncgcccncc ncccccncc cccnttcgtn ccccccntt n 1601

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&lt;210&gt; 23

&lt;211&gt; 1566

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(1566)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 23

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tttttttttt tttttgattt tttttaatgc tgcacaacac aatattttatt tcatttgttt 60
cttttatctt attttatttg tttgtctctg ctgttttatt tatttttact gaaagtgaga 120
gggaactttt gtggcctttt ttcttttttc tgtaggccgc cttaagcttt ctaaatttgg 180
aacatctaag caagctgaag ggaaaaaggg gtttcgcaa atcactcggg ggaagggaaa 240

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gggtgctttg ttaatcatgc cctatggtgg gtgattaact gcttgtaaca ttaccgtttc 300
acttttaatt aattgtgctt aaggctttaa ttaaatttgg gggttccctt cttagagcag 360
ctcgtactga cgaaggtgca tgcgtgaat gatgtcacgg cagtcgttga acacacggcg 420
gatgttctca gtgtcccagc gcangtgaaa tgagggtagc agtagtgacg cccatctcca 480
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gggttctctt cnggctcngg agtancatnc tcangagtag ggtagcgagc aaattctgga 600
aagaagcctc aatcttcnat ttcccncaa ggactttctc ancganccan atcttgcttg 660
tttganggaa ccaggaatcc cngnnnaatg gngcncaacc ccttcttggt ggtncccaa 720
aangcccntt gaaaaaaggg ttcaaaaanc cctccctgcc anggccgggg ttngggncct 780
gggnttgncc ccccccccg gnaaaaaanc ctnnttttnn naaancttgn nttgnttgg 840
ggcccccccc cccnnaaaaa aaaaanaaa gggnnnnnnn cncccccnt nnttttnaaa 900
aanacccng ggnannccc ccccttttg ggggggggnn tnnnttttnn nnnnnnggg 960
ggcccccccc cccnnnnnaa aaanaattnt ggggaaannn nnnanntttt ttnccccc 1020
ccnnngnaaa aantnngnnn tnnnnnaaaa tnnccnaaa nnnnnngccc cnnnnnnnn 1080
aaaannnnnn nntnnnnnnn nnnnnnaaaa nnnnnccnn tntannncn nnnntnncn 1140
naaaanngng gcnennnann nnnnnnnnn tngnnnnnnn nnnnnnnnn cnnnttttnn 1200
ccnaannntn nnnntnnnnn nngnggggnn aannngncnn cccccnccna annncccn 1260
nnnnnggggn nccccnnng gccennnnnn nnnccnngn nnnnnnnnn nnnnnnnnn 1320
nnnnnnnnnn nccccngnn nnnnnnnnn nnnncnnnn cnnnnnnnn nnnnnnnnn 1380
nnnnccnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnngnnnn 1440
nngncnccnc nnnnnnnann nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn 1500
nnnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn 1560
nncccc
nncccc

```

```

<210> 24
<211> 651
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(651)
<223> n = A,T,C or G

```

```

<400> 24
cgtcgttgg cgaactcccg acgtaggtag tttgttgggc cgggttctga ggccttgctt 60
ctcttactt ttccactcta ggccacgat cgcagtagc agacctggga ggagttcagc 120
cgcgtgcgc agaagcttta cctcgtgac cctatgaagg cacgtgtggt tctcaaatat 180
aggcattctg atgggaactt gtgtgttaaa gtaacagatg atttagtttg tttgtgtat 240
aaaacagacc aagctcaaga tgtaaagaag attgagaaat tccacagtca actaatgcga 300
cttatggtag ccaaggaagc cgcgaatgtt accatggaaa ctgagtgaat ggtttgaaat 360
gaagactttg tcgtgtactt aggaagtaaa tatcttttat tagagaaagt gttgggacag 420
aaagtacttt atgtaactaa gtgggctgtt cagaacttan aggcattttt tgtaatttct 480
ttttaattac tttananagc tagggatgca aatgttttca gttagaaagc ctttatttac 540
ttttggaaat tgaacaanaa atgctttgtc ttanaactgg agaataattg atggtaggga 600
aacatgtaat ggttctctgg caaaattggn tcannatttg aaatgaaann n 651

```

```

<210> 25
<211> 676
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(676)
<223> n = A,T,C or G

```

```

<400> 25

```

```

gggggacaga gactcagatg aggacagagt ggtttccaat gtgttcaata gatttaggag      60
cagaaaatgca aggggctgca tgacctacca ggacagaact ttccccaatt acagggtgac      120
tcacagccgc attggtgact cacttcaatg tgtcatttcc ggctgctgtg tgtgagcagt      180
tggacacgtg aggggggggt gggtagagaga gacaggcagc ttgnanntnn ttgcttngan      240
ntttcncnta naacccgcna gcgcttnggt agggtnngcn anggatgncn nncnttnttc      300
nnaagncncc ngttcngngt canttgettg nctentctaa ctcnnnnnnc ccccnntttn      360
gtctcctnng ngntcnacc nntctgnntc ttngntcnng nttgncctcg nnnnttnttc      420
nnngctcngc ncgntnggtg nnttgngnat nannctnanc gngtttntnn attntnnctn      480
ncgtngancn catntgancc ttntnnngnt ntctgcnctnn ntcgancgtn ttengggncn      540
cncncgnnt ctannctnnc tcnccctttt ntctcttgn ttgtggcntn acctnnctcn      600
ttctntgtnt ncnngecctn nngtgnnncn gatagtcnnc cctntttgnn aatatctntn      660
tnntcncccc cctccc                                     676

```

```

<210> 26
<211> 657
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(657)
<223> n = A,T,C or G

```

```

<400> 26
tttttttttt tttttgctgg gtggtaaactc tttatttcat tgtccggaag aaagatggga      60
gtgggaacag ggtggacact gtgcaggctt cagcttccac tccgggcagg attcaggcta      120
tctgggaccg cagggactgc caggtgcaca gccctggctc ccgaggcagg caggcaaggt      180
gacgggactg gaagcccttt tcanagcctt ggaggagctg gtccgtccac aagcaatgag      240
tgccactctg cagtttgcaag gggatggata aacagggaaa cactgtgcat tctcacagc      300
caacagtgtg ggtcttgggt aagccccggc gctgagctaa gctcaggctg ttccaggagg      360
ccacaaaact gcaggtagtg atgtgcaaga ntccatcctg cagttttcca gcaatganaa      420
actcctcctg cggttgtggg acctggggaa gtatccgcan acctctcctg gcgggggtgt      480
agacnaaccg gatgtcaccg gcatcccccta aagnttggaa ccccttatac atcttgggca      540
tcttgantct ataacgctgg tataaggngg ntnggtngac ttttgngngt cccccaant      600
gcccttgana ccaaggccgn aattncnaaa ggccctgng gggggggggg acccagn      657

```

```

<210> 27
<211> 646
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(646)
<223> n = A,T,C or G

```

```

<400> 27
ggaangctga agaattaaca ntttgactnc taaatgtgat actggntngt anattccctt      60
agagcagaaa ggagaggggc acatattaat ttgtatcgct tttgcttctc tttggtcttt      120
tgtgtcttag aatttgaag tggttcattt ctgttgctgg tatgaggatt tcgaatactt      180
agtaatcgaa aaccatatcc tgtaatttaa taaaaaaac taaggaagaa aaaaccctcc      240
aattttccca aatgcaatca gtgtaactag gggctgtgtt tctgcattaa aataaatggt      300
tcangctttg tggtcctgat caaggtcctc attaaaaat tggagttcac cctagngctt      360
ttccctctg tgactgggct cntccccac cnetcttagg tatcgagtt attatgggnt      420
ncaaatnaag naatangnt nncaaatttn accaaanaaa gcatttttt cactgcnttn      480
tnattggggg gttggcccaa ccnctcaat ggntcttanc atggntggnt acccgcnacc      540
tttncntnaa cttggngnaa ncnngggcnn tacnnttctt gggggnaaat ngntnecnn      600
cantccccnc ncntnanc cgaancnaa agggnaancn nggggg                                     646

```

<210> 28  
 <211> 407  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(407)  
 <223> n = A,T,C or G

<400> 28  
 caagagtctt tgaataaagc ccatttgagc cctggataac aagggataaa gtggagcggg 60  
 tgcacatcac agacatgaaa ttgcctcacc tgcctggcctt agaagacctt ggtattcagg 120  
 caacaccact ggaactcaag gccattgagg tgcctggcggc tcatcgactt taccgctggc 180  
 tgtctgtgta aattgaggat gtgaagccgg ccaagaccgt caacatttag tgcctcctga 240  
 gcagctcttg gttttggcgt cttttgggtc ggcccatgtg gtttgagcac ccagccaggc 300  
 ggtctcttta gaggatcctg tacacagttc cactattaaa acatttcagg ttgaaaaana 360  
 nnnnnnnnnn nnnnnnnnnn nanannnnnn nnnnnnnnnn nnnnnng 407

<210> 29  
 <211> 625  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(625)  
 <223> n = A,T,C or G

<400> 29  
 tttttttttt tttttttttt tttttttttt gggaccaaatt ttctttnttt gaaggaatgg 60  
 nacaaatcaa acgaacttaa gnggatgttt tggnacaaat tattgaaaag gnaaaggaaa 120  
 ccccaacatg catgcactgn cttggggacc anggaagtca cccacgggt ntggggaaaat 180  
 tancccnagg nttanctttc attatcactg nntcccangg ngngcttgna aaanaaanat 240  
 tccnccagc cacattnnng cncctccatn ttgcncaaat tggncacgtg gncacccaat 300  
 tctttgaagg ctttcaccng ctnattnaag naanggggtc caatgaaanc acaccantgg 360  
 ggggnatttt tgnntnnngc ccattgggca attcccaana tggctgaatc aaattttttt 420  
 nccaaagnca ngcccctcca atggattnaa anccccntnc caatanaaca nnnngntttt 480  
 ttatcctcca agaaaaattn ggcccntntn gggntggaag gtttnantat tacaagcncc 540  
 ttccittaaa tggggaaaaa nttttgnnaa annttaaaac cncntcgcca agntttnaaa 600  
 aggnnaggna ngcngnggggt tacnn 625

<210> 30  
 <211> 643  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1)...(643)  
 <223> n = A,T,C or G

<400> 30  
 cttaagaatt ggccagcct cagatcctgt ctttagcaac cagctaatat ttaccagag 60  
 gtactgcaat agagtatttc aaaatggaat caggatctgg tgggcctcag aaattgtctc 120  
 tttctgagt ttcaatttgg ttctcctgga tgttttgctc tgttttggtta cctgtaatat 180  
 agggaaacac aacttttttt gggaaagccc tttagcccca gcttgctagt tgcataataa 240

```

taaattttct gttcctaaaa aaaaaaaaaa aaaaaaaaaa aaanaaaaaa aaaaaaaaaa 300
aaaaaaaaaa aaggnngnaa naaaaaaaaa ananggggncc gntaaaaacnn gggggggggcc 360
cntcaanttt aaagggccct ttaancccc tnnnaancc nccntgggcc nttttnttc 420
ccaccttttg gngnnggnc ccccccccg ncttttttg nccgtggggg ncccccccc 480
tggtcnttnc ttanaaaaan nangaanttg cctcccttnt cngaaaangg ntcttttttt 540
ttnggggggg gggggggggg ggaannnggg ggggggtggg ggaaaaattn nggggntttg 600
ggaaccnggg gcccttgccc ttngaaaaa aaccntggg ttt 643

```

&lt;210&gt; 31

&lt;211&gt; 645

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(645)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 31

```

gtgaaagctg taaaacacct tttatggaag aaaagaaata aaatgtagtt gtcaagtcta 60
aaaaatagta gcaacgggaa tcataatgaa tacatgcaat gaatttataa tgtaaaaatg 120
aatttaaaaa gtaaaaaggg ctctgtggtg taatttttct taactacaag agtctaaata 180
cactgctttt ctttaagagt tcattttaat tagtaacgtc aaacaaaatt attctagata 240
atgagcccta caaattacta ctactagcaa ctgtcatttt ttactcgggc atcctctagg 300
tgtcttacat tctcatttta ttcttacaac gaactcatcc tccagaagga cttcatcctc 360
cagaaggact catcctccag aangactcat cctccaaagg acttctccag aagggggaaa 420
tggaagaccg gggtaacttg ctcagggtt atcacagaac tatgtttgag cctgacttcg 480
tttgaactct aaagcccaca tgctctttct actgccccat gcttctcaag gnaccagact 540
cttatttntc gcacttttga gaatctnaag atcctgantic attttaataa aatttagttt 600
tttggggagn agccnnaaaa aaaaaaaaaa ggcgcctcc ncnnt 643

```

&lt;210&gt; 32

&lt;211&gt; 668

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(668)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 32

```

tcccgttctg ttttaaacag aaaataaaag gagtgtgaag tccttttctc atttcaaagt 60
tgctaccagt gtatgcagta attagaacaa agaanaaaca ttcagtagaa cattttattg 120
cctagttagc aacattgctt gaatgctggt ggttctctatc cctttgacac tacacaattt 180
tctaataatgn gttaatgcta tgtgacaaaa cgccttgatt cctagtgcc aaggttnaac 240
ttaatgtata tacctgaaaa cccatgcatt tgtgtctctt ttttttttta tggngcttga 300
agtaaaacag cccatnctnt gcaagtccat gtatgcngcn cttaagcnn tctatcttgc 360
tcaaangnt gaangatggg gaccttggt catggcttgc gnatttgatc ntaangnnn 420
tttctancta tgnatgagg cacnngcct attggaggnc gcccnnggt tccggaaaag 480
ngcnntnntg tngngaattg cnnctcggn ttcaanaata tncggcnnt gntttgnang 540
ccnngnnnan caatcaggng ngcccctcna antcatgnaa gccccgnntn aanncnctnc 600
nctnttctcg nnttgggnnt tccattgccn gcctcgacgn ggttngcctc tcnccggcnn 660
cncgcncg 668

```

&lt;210&gt; 33

&lt;211&gt; 682

&lt;212&gt; DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(682)

<223> n = A,T,C or G

<400> 33

ggcttgtccg	agttgatatg	cgtatgcttt	gcctaaaaag	ccttaggaaa	ttagacttga	60
gtcacaacca	tataaaaaag	cttcagcta	caattggaga	cctcatcac	cttcaagaac	120
ttaacctgaa	tgacaatcac	ttggagtcac	ttagtgtagc	cttgtgtcat	tctacactcc	180
agaagtcaact	tcggagtttg	gacctcagca	agaacaaaat	caaggcactc	cctgtgcagt	240
tttgccagct	ccagggaactt	aagaatttaa	aacttgacga	taatgaattg	attcaatttc	300
cttgcaagat	aggacaacta	ataaaccttc	gctttttgtc	agcagctoga	aataagcttc	360
catttttgcc	tagtgaattt	agaaatttat	cccttgaata	cttggatctt	tttggaata	420
cttttgaaca	accaaagtc	cttcagtaa	taaagctgca	agcaccatta	actttatttg	480
aatcttctgc	acgaaccata	ttacataata	aggattccat	atggctcttc	atattcattt	540
ccattccatc	tctgccagn	atttgggat	acccgcanaa	aatttggggt	ttggggggaa	600
aaatntggnc	tggaactttt	tttanttnaa	gggaaataat	nagggngnga	aggggggggt	660
ttntggntgc	ccccccccg	gn				682

<210> 34

<211> 1549

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(1549)

<223> n = A,T,C or G

<400> 34

ttgagagata	cctccctcct	tctgctcagc	tgcttgcag	taattaaact	ctttctctgc	60
tgcaacaccc	ctactgttct	ccgtgtattg	gcttttcttg	gcagcaggaa	ggaaaagctg	120
atgcatgct	ctcagtgccg	cgtcgccaaa	tactgtagt	ctaagtgtca	gaaaaagct	180
tgccagacc	acaagcggga	atgcaaatgc	cttaaaagct	gcaaaaccag	atatacctca	240
gactccgttc	gacttcttgg	cagagtgtgc	ttcaaaacta	tggtatggagc	accttcagaa	300
tcagagaagc	tttactcatt	ttatgatctg	gagtcataa	ttaacaaact	gactgaagat	360
aagaaagagg	gcctcaggca	actcgtaatg	acatttcaac	atttcatgag	agaagaaata	420
caggatgcct	ctcagctgcc	acctgccttt	gaccttttg	aagcctttgc	aaaagtgatc	480
tgcaactctt	tcaccatctg	taatgcggag	atgcagggaag	ttggtgttg	cctatatccc	540
agtatctctt	tgctcaatca	cagctgtgac	cccaactgtt	cgattgtgtt	caatgggccc	600
cacctcttac	tgcgagcagt	ccgagacatc	gaggtgggag	aggagctccc	atctgctcct	660
ggatatgctg	atgaccagt	agggagcgcc	cggaagcagc	tgagggacca	gtactgcttt	720
tgaatgtgac	tggtttcccg	ttgccaaaac	ccaggacaan	ggatgctgga	tatggcttaa	780
cctgggggga	tgaaccaang	tttttgggaa	ngggaaagnt	tnaaanaaaa	tcccctggna	840
aaaaaaantt	tnnaaanaaa	accttggaan	ggggccccc	ttgggaaaaa	ngggggggan	900
nnngggtnt	tnggncnnt	ttnnccccc	nnnnannnct	ttaannnnng	nnantttttt	960
nnaangggg	nnnnccccc	nttttnaann	ntntntcccc	nnnnnanggg	ggggtnncnc	1020
nnnccccng	ggggnncnn	ntnaacnccn	nnctntnggn	ggaaancntt	tttttcttc	1080
nnccnnggnc	cccnanant	tttccagaa	nccccccng	gggngnnng	gaaangnnnn	1140
nnccctcnn	gggggttncc	ccnnnaaaaa	aaannnggnt	tttttttna	nganccgggg	1200
acnccccnn	naaanntttt	tnnaaagcgc	ccccnnnnt	nnngnnnnnn	nggnannnnn	1260
nnnttngnn	nttngccnc	cnttnnnng	nccnctcnn	nnnnnnnnnn	nnnnnnnnnn	1320
nnnnnnnnnn	nnnnnnnnnn	cntntanntn	ntgnaaaaaa	nggnnnnnng	nnnnnnnnnn	1380
nnnnnnnnng	ccccnngng	nnnnnnnnnn	nnnnnnnnnn	ggggngnng	ggnnngcnnn	1440
nnnnnnnnnn	nnnccccnn	nnnnnnnnnn	nnnnnnnnnn	ncgnnnnnnn	nnnnnnnnnn	1500
nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnnnnnnnnn	nnngnnnanc		1549

17

<210> 35  
 <211> 1440  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1440)  
 <223> n = A,T,C or G

<400> 35  
 ctaatctaag cctcaaactc gttattgggg ctataaagaa aacgtttact taccagctg 60  
 aaacaggtta agaataattct taatctcatt atagataaatt gcccccatgg gacttgaaat 120  
 acaacacctt gtgctgaaaa ctccaggttg gcaatatttg aagggttcgt tgtagaagag 180  
 tttaacatta actcctatatt tgacttacaa atcttgtttc tcatcactaa aatgcttttg 240  
 aattaataat ccaaccacaca tgagctgaga gtttttcttt tgtagaaaa gaaacagaca 300  
 tctttctgta tgaaagtata aattgtatgg ttttagatac ataagaattg acaaaagcga 360  
 gcgaaatctt tgtactcttg agttcttgct gtatgtatgt tttgttttaa atctgattag 420  
 ggacaccag cagctggcgg ggattcttgg attgctcctt gggagttaag attgtcaata 480  
 ctctgtgaa gcaagggatt tcagccatag aacaaagatt tattgttgcc acctgaaaag 540  
 tttacaagta tttatttgtt atttgataca ttgcttgaaa aagatgaaat ctgttaaaga 600  
 ttcttttcgg atgtccagggt taagaagaaa cctccttgta ttgagtgaat ttatatgtta 660  
 aatgggtatta gagaatgtag gtggnataga aattggattt ttcttgngg tngaacaacc 720  
 tcaagttcgg caaagttaa aatttgatt aaacaagaaa aannggttca nggttgnaaa 780  
 angggacttg nttagggang ggacaanggc ctttaaanna ccngcgtccc ttctcnggc 840  
 nggcnnngc ggcccnccc caanctnntc cangccttcg nccncnaccn nccncctttt 900  
 cctnntnca cnaantctt tnnccntttt tacngggggg ggggnnnccn ncncggcnn 960  
 cngnntcgc cncccanaaaa nncnncntt ttccnncnnc cctttncn nnccttttnc 1020  
 cnnncccccc cccgnnnnnn nnnnnnnnnn nnnnnnnnnn nggnnnnnnn cccnnnnnnn 1080  
 nnnnnnnnnn nnnnnnnnnn nnnnnngnc nngggnnnnn tnnntnnnnn gggggnnnn 1140  
 nnnnnngcg nnnnnnnnnn ngnnnnnnnn nnnnncgnnc nnnnnnnnnn nnnnnnnnnn 1200  
 nnnnnnnnnn ncccnngna ncnaannncn nnnnnnnnnn nnnnnnnnnn nnnnnnnncn 1260  
 cncnnnnnnn nnggnnnngn nngnnncn nnnnnnnnnn nnnnnnnnnn nnnnnnnngn 1320  
 nnnnnncggn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 1380  
 nnnnnnnncn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn gnnncgaaga nggcnaccg 1440

<210> 36  
 <211> 1496  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1496)  
 <223> n = A,T,C or G

<400> 36  
 tgcataccgt ggaagggcgc cagggtcttt gtggattgca tgttgacatt gaccgtgaga 60  
 ttcggcttca aaccaatact gcctttggaa tatgacagaa tcaatagccc agagagctta 120  
 gtcaaagacg atatcacggt ctaccttaac caaggcactt tcttaagcag aaaatattgt 180  
 tgaggttacc tttgtgcta aagatccaat cttctaacgc cacaacagca tagcaaatcc 240  
 taggataatt cacctcctca tttgacaaat cagagctgta attcacttta acaattacg 300  
 cattctatc acgttcaact acagcttatg ataagtcgt gtatgtcttc tttctccag 360  
 ttctgttacc caatttagat taagtaaagc gtacacaact ggaaagactg ctgtaataac 420  
 acagccttgt tatttttaag tcctattttg atattaattt ctgattaagt tagtaataa 480  
 cacctggatt ctatggagga cctcggctt catccaagtg gcctgagtat ttactggca 540  
 gggtgngaatt ttttcttttc ctctttgggg atccaaatga tgatgtgcaa ttcattgtta 600



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acttggggaa acttgaaagg ggttcccata tancttcaaa acaaaaacca aatggtgtta 660
tccngacgga tctttttatg ggtncctaact agtactttnc taattgggga aaagnaannng 720
cttttagttt tgcnaatta agtttggggg aagggcata attaaaaatt gagggcccg 780
tnacnaaaac caactggggg ngntaaacga aaaaccctgt tttnaaaagg gggccttttn 840
ccccttnnnn ngnnatntna nttccccnt ttgccntttc cnttttnnnn naaacttttt 900
nnnttttctc cccnancnnn naaangngna nngggnttcc ccccnangtt nnnnttnttc 960
nnnnnanna nccccctt ngnggnccn nngggcntt ttctcntngn naanngttnt 1020
nnnannccct ttgncnnnn gggnttgng nttcggngn ccnnggggn nnnccnnnn 1080
gnnngnnnnn gannangann nngggngnc gtntnnnng cgcggggnn nngngnnncg 1140
ngnnnnnnng nnnnnngnn cnnngnnnn nngnnnnnn nnnnnangnn nnnnnnnnn 1200
nnngngnnng ngnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn nnnnnnnnn 1260
nncnnntntn aancnnnnnn nnnnnnnnn nggnnnnnng nnnnnngngn nnnnnngnnn 1320
nnnnnnnnnn nnggnnnnnn nncnnnnng nngnnngcgg nnnnnngnnn nngnnnnnn 1380
nnnnngngng gnnnnnggn gnnnnnnnn nnnccgcnn nngngnnnn cnnnnnnnn 1440
gncnnnnnn cnnngnnnn nncnnnnnn nngnnntng nnnnnccgn gnnntc 1496

```

```

<210> 37
<211> 1604
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(1604)
<223> n = A,T,C or G

```

```

<400> 37
atgcatcct ggatggagcc gactgcatca tgetgtctgg agaaacagcc aaaggggact 60
atcctctgga ggtgtgctgc atgcagcacc tgattgcccg tgaggcagag gctgccatct 120
accacttgca attatttgag gaactccgcc gctggcgcc cattaccagc gacccacag 180
aagccaccgc cgtgggtgcc gtggaggcct ccttcaagtg ctgcagtggg gccataatcg 240
tcctcaccaa gtctggcagg tctgtcacc agtgggccag ataccgccca cgtgcccca 300
tcattgtgtg gaccgggaat cccagacag ctgctcaggc ccactgtac cgtggcatct 360
tccctgtgct gtgcaaggac ccagtccagg aggcctggc tgaggacgtg gacctccggg 420
tgaactttgc catgaatgtt ggcaaggccc gaggttctt caagaaggga gatgtgtca 480
ttgtgtgac cggatggcg ccctgtccg gnttcaccaa caccatgcgt gttgttcctg 540
tgccngatg gacccanag cccctccttc agcncctgtg ccacccctt tccanccaa 600
tccattaagn cannaangct tgtanaactt cactctggnc tgtaaacntg gncacntgtt 660
nggtngggac acctgggaa ggaataatca acnctcant tgnaaaattg gggtaangnt 720
tgccantcnt gtttttaaan gggacnagc gcgaggaagg gctnantttn ttanantnnn 780
agggggcccc cnncccnat nnanangggg caaanaacgg nanggnaaat ngnttnnnnc 840
cttngnnngc nccccnnng gannncccn nncngngnnn nnnnagnggg gntcancnnc 900
ntnccctnt nctnnntgng gtnnnccnnn nnnccnnnn cacttnaaa annnaaatnn 960
ngnccnnnn gnnngcctca cncnnttngn ggnngaccn anccaccnng cnnatngngg 1020
ntggnaggn ctctcnncnca aancantnng gncctcgtna ngngtgnnnn nnnnnnnna 1080
ncnngntnnn nncnncnnng nannngtnn cngnntccn cccactgtg tnnncannng 1140
ngtannngnn tngannntcn nngnttgnat cccgnaana cnannnncgg ncncnggcnn 1200
nccnncnnn gnnctntccc nnncccnatn nngngngnn nctgcnaict nnnnnngancn 1260
cnnnnnnnn gncncanncg antngngng nnnntnncnn nnnnnnnnn nnnnnnnnn 1320
ntnnnnnnn nccgnttntg ctngcagtac tntcngnnt ntcnnnnnn ngnnnnnnnn 1380
ncnnnnnnn nctngnacnt tngnacgcn nagtcgacnt nctnggacnt nntnnncant 1440
cnnccnngt nngnnttngn ngcnnacnnn nnnacnnngg cgnnnnnnn ncatnncnn 1500
nctnaannnn ggtngngng nnnccctccn nnnnagnnnn natannngcn nnanncccn 1560
nnnnnnnnn ngnnnnncnn nntcnnccga nanntgncac nacg 1604

```

```

<210> 38
<211> 280
<212> DNA

```

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(280)

<223> n = A,T,C or G

<400> 38

tttttttttt	tttttaattt	atcagngctt	aaaaatcttc	aaaatagctt	agtgaggctc	60
atgacagtgc	tggcccatg	gaaatgtagc	cttttggtgc	gtttaaacac	tgtcacacca	120
tctatgactg	tcccatggg	ctgaagtgtg	gtggcaaaact	aagcatccta	taagacaagc	180
taaagcttgc	tttttgccag	tcagttgaaa	gtcttgcatc	tcttcactga	tgcactttct	240
ttaggtattg	atagtcagaa	gcacaaagca	tttattatgc			280

<210> 39

<211> 378

<212> DNA

<213> Homo sapien

<400> 39

cgagtttata	atcctataat	gaagaatact	ggcacaggca	atgctcactc	gaaaacttca	60
agtaatttct	agttggtttt	ggaatgcttg	ataaagttcc	tttacagctt	tattttcctg	120
atttgttttg	gttttagatca	aagttcaaat	taattttaac	ttagctaatg	aactcatcac	180
caggacagtt	ggagggggta	ggccgaggtt	aaatgggtcca	cgtttcaaaa	atgttaattg	240
ctaattccata	attaaagaag	gtttaactgt	tactgaagtt	tacaagtttt	attgtcatga	300
acatgaaata	caaacacgat	ggcttcgaaa	tgtctttcaa	taaatgtttc	tgcattttata	360
tggaaaaaaa	aaaaaaaa					378

<210> 40

<211> 2039

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(2039)

<223> n = A,T,C or G

<400> 40

caacttttgt	agaagtattt	ttttctctgt	aatattttta	ttggctcata	aagatgtttt	60
cataatctgaa	ctcctaaata	agtgaatta	cagtagatta	tattaacaaa	atacttttta	120
ggtagccatg	cttgagactt	tttaaaaata	taactttttc	cttaaagttt	tcagctatag	180
caaaaggtag	ttatgtatgc	cagacctaat	atgagctgcc	accaacaccc	ctagaacttt	240
cagccatggt	gtcttcagaa	ttgtagcgca	ttctggaatc	tagcaaatcc	tccttttacc	300
cgttgaatgt	tttgaatgcc	ctgactctac	cagcgcccat	aaatgatctc	tagaaggact	360
gttagtacca	acctgttttt	caactttgaa	gctaaaaacc	ctgatatggt	aatattatgg	420
tgcatagcag	aggtctcgga	aaaaaaatat	ttctgttcac	tttactttca	ggttaaaaaat	480
gtttctaaac	cgcttgcaac	ttcccttatg	gcattaatct	tgttgaggga	gagagacaga	540
atcctggact	ctccaaagta	tttaactgaa	agtagggcct	gctctgacag	ggccccatgtc	600
ccacaaggct	ggcttnggcc	tcaggggggg	gctttggctg	gtgcttgga	tgaaaaatgn	660
tgganncnng	tnnttgggga	taaanngacc	aaanngacca	gccaaaagcn	aaaaaatnng	720
gnnttttaaa	ngccttgggg	ggnttacctt	tttcttttaa	angnnggttt	naaagnatta	780
gggctaang	ccantttnc	aaaaaangct	ccnanaanaa	aatggtggaa	aagggnccct	840
tttggnccgac	aggncccttg	nggaaaattg	ccccanang	ggcccttttt	tgnccccccc	900
nncccaaaaa	aaagntgggn	ngaagnnttn	ttaaaaccct	nnngnggcc	ntttttttng	960
nnaaanccnc	cnccnngggg	gncgcccnc	ttntttntt	ntnttccng	ggngnccnnt	1020
tttttncgg	cngaccnnc	gggntcaan	nnctgnanaa	gngngtatct	ggcnggggnn	1080
gcgcangaaa	gnnnnnggn	ncngnggggg	nnnncgcncg	nnannntnt	gnggggnaaa	1140

```

aaaaaaganc cctctnttnc tctctntntt naanntnnnn ngnnnnnnan ncngcnnnn 1200
gngngngngn nnnnnngnc nnnnnnnnn ggggggnggg cncncncnc nnnnantng 1260
gggcgncctn tnnnnnnccc cctcncgggn nccnnnnnng ggngngngcn nntntngng 1320
tcengnntgt gtntgngngg ncnncncnc cncgnnnnnc tnnnnntntg nntngngng 1380
ggggngngcn nccccncncg tgnnnntntt nnnnnnnnn nnganggna nnnnnnnnn 1440
nnnnnnnnnn ggggngcnnn ncnncncnnn tnnnnnnng ggngggggg gnnnnnnnn 1500
nnnggngngg nnnnnnnnnn nnnncncnnn nnnnnntgng cgnnnnnnc ncnngngnn 1560
nnnnntnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnn nnnnnnnng nnnnnnnnn 1620
nnnnnnnnnn nnnnnngng gnnnnancgn tngcngngg tnnnnnnnn nnnnnnnnn 1680
nnnnnnnnnn nnnnnngnn nnnnnnnnnn nngngnnnn nnnngngnnn ncnnnnnnn 1740
gnnnnnnnn cmtgcgagc nnnngncnnn ncnnttgn nnnnnngnn tcgncnnnn 1800
nnnnncnggg ggcgntnnnn ncncccgcn gntgncnnnn nngncnnnn ncnnnnnnn 1860
ngnnntnnnn cnnnnnnncg nnnnnnnnn nnnagngnn ngngnncnc ncnnnatnn 1920
gannnnnnnn ncnncnnnn nnnnnngnn nngcnnngnn ngnnnnnnnn nnnntcncn 1980
ncncnnngnn nnnngnnnnn nnnncncngn gngnnngnn cccgtccgcg cngcgcgcg 2039

```

```

<210> 41
<211> 319
<212> DNA
<213> Homo sapien

```

```

<400> 41
tttttttttt aaaaaaaaag agttttattta gaaagtatca tagtgtaaac aaacaaattg 60
taccactttg attttcttgg aatacaagac tcgtgatgca aagctgaagt tgtgtgtaca 120
agactcttga cagttgtgct tctctaggag gttgggtttt tttaaaaaaa gaattatctg 180
tgaaccatac gtgattaata aagatttcct ttaaggcaga ggctggctga gatgctgctg 240
ttatctcttg cctcagacag acagtataag tggctcttgt tctaagattc ctaccaccag 300
ttactttggg ccaagtatac

```

```

<210> 42
<211> 524
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(524)
<223> n = A,T,C or G

```

```

<400> 42
cctttttttt tttttttttt ttttctgatt tcaagtcaag atttattgct ttacaaacaa 60
acattatact tggctttaat agaaaaatga caccagatac atccaaaata catttcacat 120
tgggatagct gccagttcag cacaaaacat acattactag gagcagggag gcatgaaaat 180
aaactatata ttactttttg gtacgtcagg aacacttttg cctgaagtaa gccctttagt 240
actatttttt attttattta tttttttaat ccacccatct gcacactggn cctttagtac 300
tctttaagta taaaacttta cttgtcctgg gctttgacct ttgtgtttga tctaaatgac 360
atttcaaaca taaatgtctt ttgactagtg cgcttactgn tatgtacana atttaaaatg 420
tgatcggtng aatntaaaat ctgggtttgat acatgatata aaagttgtat atttaaaatn 480
caagaaatgt ttttggggaa tatttctact aaagaatttt aaat 524

```

```

<210> 43
<211> 103
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(103)

```

<223> n = A,T,C or G

<400> 43

```
cctttttttt ttttttttgc nngaaataag gaatctataa atctgaaata aagaaatccc    60
atttttaaatt aaattgttaa agagacacat aagaaaaaac act                      103
```

<210> 44

<211> 425

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(425)

<223> n = A,T,C or G

<400> 44

```
gtcgacaaga taatgtactg acatctctag caatcttttt tgccagtggc tttaaattgc    60
caataagtta aagaatattg ttcctatggg ttaaaatttt attcttattt tcacatttaa    120
atattttttt cttaattttt gtggatacat aatatgtgta tatatgtatg ccatatatgg    180
tatattttga tgcaggcata ctctatataa taatcacatt agaggaaatg agatatccat    240
tacctctagc atttattctt tttattacaa gncaattcaa ttgtacactt tttagttatt    300
tttaaattta caatgttatt gattacaggg tcatttttat ggtcataata aaaaatttta    360
tacaaaacgt gtaaaatcta tacatttctg agttctgaat aaatattttt taaaaatttt    420
aaaaa                                           425
```

<210> 45

<211> 492

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(492)

<223> n = A,T,C or G

<400> 45

```
gtcgactgcc cccaccgctg ggcggcgctg cggggcaccc aggctctgca gtcagcgccg    60
gcgcgggaat cctgtaccg ggcggaata agtaccagac cattgacaac taccagccgt    120
accgctgcgc agaggacgag gagtgcggca ctgatgagta ctgcgctagt cccaccgcg    180
gaggggacgc aggcgtgcaa atctgtctcg cctgcaggaa gcgccgaaaa cgctgcatgc    240
gtcacgctat gtctgcccc gggaattact gcaaaaatgg aatatgtgtg tcttctgatc    300
aaaatcattt ccgaggagaa attgaggaaa ccatcactga aagctttggg aatgatcata    360
gcaccttgga tgggtattcc agaagaacca ccttgtcttc aaaaatgtat cacaccaaa    420
gacaagaagg ttctgtttgt ctccggtcat cagactgtgc ctcanattg tgttgtgcta    480
gacacttctg gt                                           492
```

<210> 46

<211> 499

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(499)

<223> n = A,T,C or G

<400> 46

```

cctttttttt ttttttttat aacatttata taatgtgcta acaatgaatc catccatgat    60
ttattgtttt taatgaactt aaaataaccc ttacaaaatt aaaatcattt tttcaaacat    120
gacttcatat tgaaatgggt ctgttaaaaa agtaaaagtt gaattttcca gccaathtag    180
catctaggac ctgaatcttg ccaatatcct acccactatc ttcattccta cctcctaccc    240
cttcaaataca gctcctccag actttcctat ttctgtcacc ccagttcaaa atggttttca    300
ccatgcattt gatgtaaaat gtgcaagtgc gatatgactt cacaaagtat caattgtgtg    360
gacaatgata actactgtga cactgctagc acccctggct aaaagtaaga agcaacaaaa    420
ttacacaggg ttctttcttg atgaatgcag nanggattca agaaatccca ganttgga    480
aagattttca atagatctg

```

&lt;210&gt; 47

&lt;211&gt; 537

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(537)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 47

```

gtcgacattt ttctgaggaa tagtttgtga ttccaatgca ggtgtcttca ttaccattac    60
ctctacactg cagaagaagc aaaactcctt tattagaatt actgcacatg tgtatgggga    120
aaatagttct gaaaggctag aatgatacaa gtgagcaaaa gttggtcagc ttggctatgg    180
agtggtggca ataatctcta aacattccaa aagaccatga gctgaaccta aactcccttg    240
gaatctgaac aaaggaatat aaaattgcca ttgaaaact gaccagctaa tctggacctc    300
agagatagat cagccagtgg cccaaagcca tttcaagtac agaaattata gagactacag    360
ctaaataaat ttgaacatta aatataattt taccactttt tgtctttata agcatatttg    420
taaactcaga actgagcaga agtgacttta ctttctcaag tttgatactg agttgactgn    480
ttcccttatc cctcaccctt tccccttccc tttcctaagg caatagtgc caactta    537

```

&lt;210&gt; 48

&lt;211&gt; 556

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(556)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 48

```

gtcgactttt tttttttttt ttagnnntat aaaatatttt atttacagta gagctttaca    60
aaaatagtct taaattaata caaatccctt ttgcaatata acttatatga ctatcttctc    120
aaaaacgtga cattcgatta taacacataa actacattta tagttgttaa gtcaccttgt    180
agtataaata tgttttcatc ttttttttgt aataaggtac ataccaataa caatgaacaa    240
tggaacaaa atcttatattt gttattcttc caatgtaaaa ttcattctctg gccaaaacaa    300
aattaaccaa agaaaagtta aacaattgtc cctctgttca acaatacagt cctttttaat    360
tatttgagag tttatctgac agagacacag cattaaactg aaagcaccat ggcataaagt    420
ctagtaacat tatcctcaaa agctttttcc aatgnctttc ctncactgn ttattcagta    480
tttgccagt acaaaaataa gattgggtct caactctctc tttcattagt ctcaagngtt    540
cctattatgc actgag

```

&lt;210&gt; 49

&lt;211&gt; 355

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<400> 49  
gtcgcaccgag cctctccac cctcagtcgc atagacttat gtgttttgct aaaattcagg 60  
tattactgaa tttagcggtta atccacttcc tttcttcttc ttctaaaata ttgggcactc 120  
ggttatcttt taaaattcac acagaaaaat tccgtttggt agactccttc caatgaaatc 180  
tcagggaataa ttaaaactcta gggggacttt cttaaaaata actagaggga cctattttcc 240  
tcttttttat gtttttagact gtagattatt tattaataat ctttaataat aggaaaaggg 300  
gaaagtattt attgtacatt attttcatag attaaataa tgtctttata atacc 355

<210> 50  
<211> 507  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(507)  
<223> n = A,T,C or G

<400> 50  
cctttttttt ttttttttaa aaaaaaaaaa ttctgtttat tgtaataatt aaataagagt 60  
aaacatttta aaacatataa aaataacttt aaaatatagt aacactttac aaaatatgta 120  
tctaattaaa aatacattaa catagcatcc ctcaaactat acaaatatag aatatatatt 180  
catgaaattc tttanaaata taacatctat tctttgaata aagcttaaaa tttgtttata 240  
attttcaaac taanaaaaga agtagngaat aatagctcca tccaatttat aattgtctta 300  
aagagaatga ttatgtatca tttcttgctt gtcttttcta ataccagtc aatcacctgt 360  
acagcattgt tgtttgctgt tttcttcatt tcttcaaata gacccttga aagtttttaa 420  
gatccttttag atagaactta gagatttcaa agagacgctg gctgcatgca gtgaaacatt 480  
catgagtcctc ggtaatactg ngtttct 507

<210> 51  
<211> 538  
<212> DNA  
<213> Homo sapien

<400> 51  
gtcgcgcgcaa aagtttgact aaactttacc tttttatagt ttcacttttt aagttatatt 60  
tagaatatat tgatagatta taaattgatt gtgaaacttt tttctgaatt ttttcaacat 120  
gtttttactca gttacatgag ttaaaggata ttttcagtcc tgttatcttc aattgcagtc 180  
tttaaaaaaa cccaccctat tgttctactt gttatatgtc tattcataca gtaaattcat 240  
ttcaaggttt atgccagtgg gtattattgg tgctttttga agttgagggt aaccatccag 300  
gaagggtcttg ttaatgttat gttcatctat aatggcatag gggaaatata tatattttta 360  
atattgtaaa catttgtact gaataacctt tttttccccc cctccgcaag caaaactggg 420  
tgaacagcgg atgaagatat ggaattcaaa gctctaattg acctttttga agagaagttg 480  
tggccttatgt ggagtttaca tgggcctctg atggaagaaa gctaactctgt ttagtatt 538

<210> 52  
<211> 504  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(504)  
<223> n = A,T,C or G

<400> 52  
cctttttttt ttttttttta aagtacaaat tcagtttatt catctgttta tgacacagta 60  
cacaggaggc aaagtgtttc acatcataga cttcacttcc aactccttgg aatgttcatt 120

```
tcttttggtt acaggagaga ctagacagga aggccaggca atgcttaggc aactaaaatg 180
aggttggggg taatgctaac gtcaccctca cagggatggc cacggggact gttattcgca 240
agctggtttt ctagacctgt tagctggaag catgggtgagc accattttctg gacgctcagg 300
ccgtntcggg cttcagtcac ntccaccaca caggtacagc agcgctttctt ggtagtcgcc 360
cttagtgtct tgctggatat aatagtacag ggacttgccg tactttctctt tgaattcaga 420
cctaattttc aacatgtcca cttcactgng ggagaccatg attctgatca ggacccttat 480
ctcgcgctccc cttgcccttc atgg 504
```

<210> 53

<211> 489

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(489)

<223> n = A,T,C or G

<400> 53

```
gtcgacttta gatgtacagg ctgacanana agattcccga gagtaaatca tctttccaat 60
ccagaggaac aagcatgtct ctctgccaag atccatctaa actggagtga tgtagcaga 120
cccagcttag agttcttctt tctttcttaa gccctttgct ctggaggaag ttctccagct 180
tcagctcaac tcacagcttc tccaagcatc accctgggag ttctctgagg gttttctcat 240
aaatgagggc tgcacattgc ctgttctgct tcgaagtatt caataccgct cagtatttta 300
aatgaagtga ttctannatt tggtttgga tcaatnggaa agcatatgca gccaaccaag 360
atgcaaatgt ttgaaatga tatgacaaa attttaagta ggaaagtcac ccaaactt 420
ctgctttcac ttaagtgtct ggcccnaat actgtaggaa caagcatgat cttgntactg 480
tgatatttt 489
```

<210> 54

<211> 577

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(577)

<223> n = A,T,C or G

<400> 54

```
cctttttttt tttttttttt aagaactcaa tacatggctt ttaattattg tctataattt 60
aaggaaataa tcacctacaa ataggatgtt tctcaagttg gcttacaaat ttgttacttg 120
gcagactgaa aacatttccc acagaacaaa tattatacac aatgggtggg ttcttttggt 180
taatgcataa tgtttactcc ataatttatt taccacaaa catgaattga acatttcttt 240
gtgccanaaa ctattctaac actagaaata caatagtaat gaacaaatag aaaaaaatcc 300
tattgtcatt ggtattacat ccatagtttt ttctccaaga gaataaaaagt aagtaaaata 360
tatagaatta tagataatga tatatgctat ggtgaaaaac aaagctgggt aaagggatag 420
agaatggggg aaggataatt ttaactgatt attagtagaa tgtactagta tctctgttct 480
aaaaggattt aagataggta ttacttaccg aacctaagta ttaaaaataa aatagcaatg 540
cttacactag gaaagacttt caactgagaa gcattat 577
```

<210> 55

<211> 483

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

&lt;222&gt; (1)...(483)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 55

cctttttttt	tttttttcac	caataattat	tttattcagg	gagtaaatgt	tattaattgc	60
caaaatacga	atttttaaatt	tgagaagtac	agatttgtaa	gtatataatt	gtttgaatag	120
tatcanattg	gccttttatt	ggcttattgg	tatttagngc	cagcacttac	aatgtgaact	180
cagcaacaga	agataattct	tatgaaatca	acattcaact	tacatgaaat	aacttaaaaa	240
cttaccaaca	atagtctaata	gattatatac	ctttaccaaa	caatgtctaa	tgaaagtcca	300
aatgtaaaaa	tttaaaaaatt	aaaattatag	aatataattt	ttacacatca	attgttttgt	360
agcaccatct	cgcaaagnaa	atatcatgtt	tattctgtag	ctaaaatttc	tccccacaag	420
cagaaattgt	ttggaatata	caaaaagaca	acccattaac	aagtaacttt	aagtaatgta	480
gtt						483

&lt;210&gt; 56

&lt;211&gt; 521

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 56

gtcgaccaga	cttaagcatc	gagtttttac	catcttccac	tttaagctaa	gttatgatac	60
ctattccatt	cacaattggg	gttcttttta	aggtttgcaa	atttcagcca	attttgtagc	120
taagattgtt	ctgatcagct	caaaaagatt	tggcttagtg	ttttcattgc	aaattataat	180
tgctgtagag	ccacacacaa	cttttgaaact	tttaattata	agtgttatgg	ctaaagttat	240
ttactgaaaa	tttcagtaaa	atgtgtgaat	gtttotttat	gtattaacct	catagcagta	300
aatgacttgc	tggtgtttta	tttttctaag	gcactttaat	agacttctgt	tgaaaacttc	360
agtgtttaaca	tttttatagt	ttgtactaaa	tttaaccgtg	atataaaaaat	gaattttatg	420
catagatcag	gaatttttaa	ttaaaggttt	tttcttttaa	aaaaaaaaaa	aaaaaggcgc	480
gccgctcgag	tctagagggc	ccgttttaaac	ccgctgatca	g		521

&lt;210&gt; 57

&lt;211&gt; 542

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(542)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 57

cctttttttt	ttttttttaca	acttcacatt	ctttaatgtt	cattcagaat	attaaatgcc	60
attaattgac	catcattatt	ataaaaattta	ctatttagat	aagtgagttt	tagtacagtg	120
ctattttaaag	tatggaactg	ttactgggtg	gtgatcagta	cagaaattga	gactaagcat	180
ttagaacctt	agagcaattt	gacgtagcaa	tcttctgtct	gttgaatcta	ataacaaaaa	240
aaattttttc	aattttgcat	atctttttta	aatttaattt	gtcaaggaat	tcatttttag	300
catatttttac	aaaaacatca	ttctcctatg	gagactattt	ggaaatacaa	ataagaaac	360
tggttctttac	cacagatagt	ttttagaaac	ctgttttagt	gtaaagccat	catttagtat	420
aaagncatct	atttattactg	ttactctgaa	gtggttactg	agcattacaa	cagtnggtng	480
gattataagt	ttgtttacta	aanatgctag	gatttattaa	ctcatgtata	tattttattga	540
ga						542

&lt;210&gt; 58

&lt;211&gt; 261

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 58



```

gtcgacagag aaggtctatg tcaacagagt tgttatctca tagagccagt tttcaaagct 60
ccttctgcat tgtcactcac tgatcagggt atgaattctt cctagatagt cgccactcc 120
acctcctact taacctgaga ctcatatttt agctatttct gcttttgtaa aaataattca 180
gatattaaac tccaatttta atctatcatc caagggtaga tgtagttgct tagtagcatt 240
ttggaaaaaa aaaaaaaaaa g 261

```

```

<210> 59
<211> 480
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(480)
<223> n = A,T,C or G

```

```

<400> 59
cctttttttt tttttttaa atatagaagt tctgagttag acctgtttag ctcanaatag 60
tgggctaaac taccataaaa ttctctgtat atcttaaag gtaatgggtc aaaaactcca 120
gaaaatcatc agttgataac acacctacag ataagtgcac gggtaggagg ggatagccaa 180
gtgcccataa taatttgacc tcagtaaatt aaactgggca atacacatat ttgctattct 240
gatactgcat tagacttata aaattccatc taataagcat tcataaaact ggacctctct 300
gtatatatct agcttagaca gggataggga aaagaataac tgaagaaact agcttacaat 360
agctagggtt cgtcagggtt attctatcca gccagaaacc accaccagag agaagctgag 420
ccattcagct gnetgtctcc tctccctctg tttgaatagt catgcctagg ccttgctgca 480

```

```

<210> 60
<211> 493
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(493)
<223> n = A,T,C or G

```

```

<400> 60
cctttttttt ttttttggt ccttctgttt atttcatttt ggatactcag tgaatgtaa 60
ttaaccagga aacttaaaag ttatttcaat tatgaacctc ttcaatcctt catcaattat 120
tttgagtatt ctggtcttaa aaacatctct ttcttctaca aacttctgaa agagatgaac 180
acctccacct acacaaaat aatgtgcttt gctggccaaa agtacacgtc catttttact 240
taacagtcta aggaaagtct ggtgcaaatt actataataa tctgggttgt aaatggttct 300
tgagggtgaga atgagatcat attttaca aaagttttca ctacttagta caagcttaca 360
aaactcagac cactcaccag aaaaaaatcg gcatttatat agttgngtta cttttggttt 420
cctgcactct ttcacatctg gctcatttac atcattttct tcactttcca aagtggagtt 480
agctactaca tta 493

```

```

<210> 61
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(532)
<223> n = A,T,C or G

```

```

<400> 61

```

```

tttttttttt tttttttgaa aaatataaaa ttttaataaa ggctacatct cttaattaca 60
ataattattg taccaagtaa ttttccttaa atgaactctt tataatgcat aatttacagt 120
ataagtagaa caaaatgtca tgacaaaagt cattgagtag aagacttgta ataaaaaggc 180
ataaaatata tttatacata aaccoccttc aaaaaacaag ggaaagcttg agccctcaat 240
atagggcgac acacggagcg ggtgaccgtg caggtagcag tactgtactg atttaaagtc 300
aagcactaga gatagnggat taatctctt ttgccgtaca ctatatacag atgtatagta 360
caagtaacaa tggcaaacag aatgtacaga ttaacttaac acaaaaaacc gaacatcaaa 420
atgaaggtgt gtggaggaaa ggtgctgctg ggtctcccta caactgttca tttctttgng 480
gggcaggggg tagttcctga atggctgngg tccaatgact aatgtaaaac aa 532

```

&lt;210&gt; 62

&lt;211&gt; 567

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(567)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 62

```

gtcgactttt tttttttttt taagtatttt aggcataatt aataaataac ttcagtaaat 60
agcactgtaa aaagtgaact gttaaaacta aaggcactta aaacaagaat gtgactagt 120
tgaaacaaga tgggcaactc aaatggtgag aagtaaacad acagtgggtc gttatggcac 180
taactcaaa taagactcgc gtaggtgaga gctgttgcat agccacagta taacttcaca 240
tgttcattaa aaaggcaaat tgaccgctaa aacttcaaa aaaaagtact cataaaaaaa 300
gtcttaccoc aaaattgcaa acaatacat taaaagatta gaagaggtga tagaaagcac 360
cagacattaa acaaaaataaa aataataaaa taaattcaac tcaaaagggtc ccatttcagc 420
aaatactttg taaaagtatg gcctgtatgt aaatagttgc taaatcaagg actttttagc 480
agaaaattgc tcggttcttt tatctaaggc ttgaatttgt aaagngaagg cataaaagtt 540
nccaaacatt aagtaactct taaaatg 567

```

&lt;210&gt; 63

&lt;211&gt; 247

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 63

```

gtcgacaaac aaacttggct tgataatcat ttgggcagct tgggtaagta cgcaacttac 60
ttttccacca aagaactgtc agcagctgcc tgcttttctg tgatgtatgt atcctgttga 120
cttttccaga aattttttta gagtttgagt tactattgaa tttaatcaga ctttctgatt 180
aaagggtttt ctttcttttt taataaaaca catctgtctg gtgtggtatg aaaaaaa 240
aaaaaag 247

```

&lt;210&gt; 64

&lt;211&gt; 330

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(330)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 64

```

cctttttttt tttttttttt tttttgacat ggagtcttac tctgtcacc aggtggagt 60
gcagtagtgc aagctcggct cactgcaacc tcaggcagga ctatttttaa ttatttttaa 120
tacctgcaaa agggaatctg cacatgcaca tccgtgtttc tacanaaatc tgcgatcgat 180

```

ggcagatctg	tttgcccttg	ngtgtccaca	tgaaccattt	ggcaaaggca	tccaatgcta	240
acggggccca	ccaactacaa	cggaggcaac	aactctgnng	atttnttttc	acagaaagag	300
taaaatttca	ttcaaccggt	ccatgtcgac				330

<210> 65  
 <211> 486  
 <212> DNA  
 <213> Homo sapien

<400> 65						
cctttttttt	tttttttact	aggcaaagaa	ctttattaat	ctttgtttca	aacttgattc	60
ccaggcttct	tcggttaaat	tagctgcaaa	gaatgaattg	tgtataagca	aaaactgaaa	120
agagctgcag	tgtccaaggg	gcttgggctt	aaaaatatta	gagatctaga	ttttatcaga	180
tccataaaca	aaaattttct	aaaaagcagt	cataatataa	aatagcagct	cccagtaact	240
tcttcagggt	ttatcttcag	aagttgactc	aattcagttt	gcctcattct	tgggaagcctc	300
atcaaaaattc	tccacaagat	ctggaacttc	atcatcatca	tcctctccag	tagcaagtgg	360
tgctttttcca	tccacagatt	gtttgggcag	agcttcggcc	agtctcctta	aactagtcag	420
actatccgca	ccaagctggt	ttaagatgct	gggtagcatt	tctgtcagct	gctttgtctc	480
agcatg						486

<210> 66  
 <211> 503  
 <212> DNA  
 <213> Homo sapien

<400> 66						
gtcgaccgtc	agacagcaac	tcagagaata	accagagaac	aaccagattg	aaacaatgga	60
ggatctttgt	gtggcaaaaca	cactctttgc	cctcaattta	ttcaagcatc	tggcaaaaagc	120
aagccccacc	cagaacctct	tcctctcccc	atggagcatc	tcgtccacca	tggccatggt	180
ctacatgggc	tccaggggca	gcaccgaaga	ccagatggcc	aagggtgctt	agttaaata	240
agtgggagcc	aatgcagtta	cccccatgac	tccagagaac	tttaccagct	gtgggttcat	300
gcagcagatc	cagaagggta	gttatcctga	tgcgattttg	caggcacaaag	ctgcagataa	360
aatccattca	tccttccgct	ctctcagctc	tgcaatcaat	gcattccacag	ggaattattt	420
actggaaaagt	gtcaataaagc	tgtttggtga	gaagtctgcg	agcttccggg	aagaatata	480
tcgactctgt	cagaaatatt	act				503

<210> 67  
 <211> 519  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(519)  
 <223> n = A,T,C or G

<400> 67						
cctttttttt	tttttttgaa	taaatttttt	ttttattttt	acaccataat	ccaattctag	60
ttatcttaat	tgaatttgaa	aactttttca	attgcattaa	atttacaaaa	aagttctccc	120
acattacact	aaagcattcc	tcatgtttca	cttccagtac	tcagatactg	aatgagtaaa	180
atcattttat	tggctctctt	ttaattaaact	ccttcaaatg	cacattgttt	aaaaactgac	240
taggtcaaaa	atagttacnc	ctgcagggtg	acctattcag	actttgcaa	actcctccaa	300
gttcaatata	aattgacgtt	ttcagagtac	aaagtcaatt	ttacggaaac	gctgttcctc	360
cttttccatg	gagccaatct	gggtaatttt	ttcattaaaa	ttcttcttct	gcctgtttgc	420
tgcggaactc	tttgagctgc	tgtagccgct	cgatagtttc	anaaatggtg	cgttccccgt	480
ggaccttatt	gtcctcttgt	gcggatatna	acagtgccca			519

<210> 68

<211> 495  
 <212> DNA  
 <213> Homo sapien

<400> 68  
 gtcgactaaa gctgaagaga taaaagaggt tgtggggcta tgtcttaaga caaaagaaca 60  
 tttagaaaac ctcaggaaat gatcagagt ggatagatgt tactagaaga aa'caaaagaaa 120  
 ttgaattcaa ttaggagtta gaatcattta caaagcaatg gggaaagtaa gcccttaaaa 180  
 actattgtag catatagtaa ccagagccaa actctcataa tatattcccc aaggcaaaag 240  
 aaaaatattt acaagattgg cgttgtttta tatgtttgca aacttattta ataagtctgg 300  
 cttttagatg ttcatatctg agtctgcatt caatcaaaat gtcttggtta aactcatga 360  
 aaaaacccca gcctcataaa ttagtagttg gaaaaaggag gcatatttag agctttttca 420  
 gataattgta tttctttgat acattagact ggacacacag tagtttgttt aaggtttaatt 480  
 gcaatattgc aatga 495

<210> 69  
 <211> 525  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(525)  
 <223> n = A,T,C or G

<400> 69  
 gtcgacgcca ccatgttcga ggcgcgcctg gtccagggct ccacccctcaa gaagggtgtt 60  
 gaggcactca aggacctcat caacgaggcc tgctgggata ttagctccag cgggtgaaac 120  
 ctgcagagca tggactcgtc ccacgtctct ttggtgcagc tcaccctgcg gtctgagggc 180  
 ttcgacacct accgctgcga ccgcaacctg gccatgggag tgaacctcac cagtatgtcc 240  
 aaaaatactaa aatgcgcgg caatgaagat atcattacac taagggccga agataacgcg 300  
 gataccttgg cgctagtatt tgaagcacca aaccaggaga aagtttcaga ctatgaaatg 360  
 aagttgatgg attttagatg tgaacaactt ggaattccag aacaggagta cagctgtgta 420  
 gtaaagatgc cttctggtga atttgcacgt atatgccgag atctcagcca tattggagat 480  
 gctgntgtaa tttcctgtgc aaaagacgga gtgaaatttt ctgca 525

<210> 70  
 <211> 511  
 <212> DNA  
 <213> Homo sapien

<400> 70  
 gtcgacattt tatatataat actactaatg gcatagatta acaaaatatt ttacatgtag 60  
 gaaaggacat aagattactt ttaaagaata gtatgaaata cacaatatc aaatgtgttt 120  
 gcaatgccta ccaaatttca aatgtgcctg gatcatgtat aaattaagga aagaaaaaag 180  
 gatcatgtat aaattaagga aagaaaaaat gtaagtatac aacctacacg gtaaaaaaca 240  
 aaaccaaaca cctgggttaa aatatctatt taagctcgag tgtataacct taaacaattt 300  
 gtgtatcact agaaaaatgg atttatttagt aaaatttagg gcagagattt tattttggac 360  
 accactgcct ttgtagaaaa atccaaagtg gcataaaaag aaaaataaaa tattaataaga 420  
 aaaaatatat attatcattc ccatgttccc atcctgttac tagcattgct gttctggtgc 480  
 atcaatcctg agtactctaa cttttgattt a 511

<210> 71  
 <211> 464  
 <212> DNA  
 <213> Homo sapien

<400> 71

```

cctttttttt tttttttgga agagcttctt gcactgttat aagaaagaac atgtgggaga      60
ttgcaaacaa agcaacataa agagtataca gcctgtagga gtctgactaa agtaaaaaaa      120
actcatgtct ttgttttagtg agtatctgta tactaagtta atgcaatgcc aattagattc      180
aaattaaatc aagtacaagc aaatgtactg aaagtattag gaatgcatca tctactttgc      240
taaataattt gcactccgca ttctgcaatt acatgagcat gccattggta taatattggg      300
tatataacat ttaacatggt agttttttaa agaattgtaga tacattcata gagatcagta      360
tttttacaga tgtttttact ataaaaggaa ccatgtataa cattgatttt taccttcagt      420
tttgataata ggctgaagac tgccttcaat cactttaatt ttg                      464

```

<210> 72  
 <211> 234  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(234)  
 <223> n = A,T,C or G

```

<400> 72
aataaaannt gaacaaaagg aaaaggtgga tataaagtgg aacctgtggg aaagaggcaa      60
gggctgcagg acagaagaga ctgggaactg caggggccct gggactcagg aggagatgct      120
gattcagctc ataggtgacc cagtcctggc cccggctgtt cccaagagaa ggctgtaagt      180
acccagggag gtggtgaagca ggatggagga aaaatcagag gactgggggt cgac          234

```

<210> 73  
 <211> 143  
 <212> DNA  
 <213> Homo sapien

```

<400> 73
gtcgactaaa taagtcaatt cctggaattt gaaagagcaa ataaagacct gagaaccttc      60
cagaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      120
aaaaaaaaaa aaaaaaaaaa ggg                      143

```

<210> 74  
 <211> 533  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(533)  
 <223> n = A,T,C or G

```

<400> 74
gtcgacataa tctaggcatg aagagcaaaa atatcccttc cggagtcttt gaagctgaaa      60
atataaaaca aataaaaaaat aaaaaaataa aaaccacaa aaatgttgaa ccaaacctcc      120
ctgctaattc ccatgcccac gttctttccc accctgttcc cagtcttctg acaaactgtg      180
tacatagcgg actcctcctt tctcctccga ggtggtttta aaggcttttt ggtgtataga      240
agtttgtoca ttgttaaaac tccggattgc gtctctcccc gccttcggcc cttcccttc      300
cctaaagtga tgggctttct cttttctctt tttagtttac ccggtttctt ttttaagtaat      360
gtggaagaaa atggtttatt ttgtattgng gtattgaata ttgngttcct ttttatgagg      420
caaacctgat tgtaaaactt atgtaactat agactggaaa aaaatgagcc gngccaaaag      480
tctncccttc tgtttcttca gcacattgac ccatnncaca cacatacaca cca          533

```

<210> 75  
 <211> 485

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 75

gtcgaccttc	cctaggctgt	ttctgctggg	cgctccgcga	agatgcagct	caagccgatg	60
gagatcaacc	ccgagatgct	gaacaaagtg	ctgtcccggc	tgggggtcgc	cggccagtgg	120
cgcttcgtgg	acgtgctggg	gctggaagag	gagtctctgg	gctcggtgcc	agcgccctgcc	180
tgcgcgctgc	tgctgctgtt	tcccctcacg	gcccgacatg	agaacttcag	gaaaaagcag	240
attgaagagc	tgaagggaca	agaagttagt	cctaaagtgt	acttcatgaa	gcagaccatt	300
gggaattcct	gtggcacaat	cggacttatt	cacgcagtgg	ccaataatca	agacaaactg	360
ggatttgagg	atggatcagt	tctgaaacag	tttctttctg	aaacagagaa	aatgtcccct	420
gaagacagag	caaaatgctt	tgaaaagaat	gaggccatac	aggcagccca	tgatgccgtg	480
gcaca						485

&lt;210&gt; 76

&lt;211&gt; 417

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 76

cacgctgggt	ttgcatcttc	aggagacgct	cgtagccctc	gcgcttctcc	tgggccaatt	60
cgcggaagaa	gtggctcacg	ccttccagag	ccacatcacc	gcggtcgaaa	tagaagccca	120
gagagaggta	ggtgtaggag	gcctgcaggt	acaaattgac	caggctgttg	acggctgcct	180
ccacgtcggg	ggaataattc	tgacgaatct	gggagctcat	ggttggttgg	caagaaggag	240
ctaaccacaa	aaacggtgct	ggcaggtccc	agaagcagga	gatggccgag	aagatggtcc	300
cggaggttgc	aagcgggagag	gaaatcggag	ggcggtcgga	ggctggaaga	gagtccccgg	360
atctgttccg	tccaaacact	gttgaagcaa	gagacagacc	cgcgggaccg	cgtcgac	417

&lt;210&gt; 77

&lt;211&gt; 547

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(547)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 77

gtcgaccttt	tattaagaat	atattttatc	aggcattttg	ataacaaact	gttactctaa	60
gtataggtga	tttaccacgt	gtatttttaa	aagtaaatga	atcccaactgt	agtttttctt	120
gaaggaaaaa	tcattttctcc	agttgctgag	gggtactaaa	agcttcatac	acatttagcag	180
caaagtcttt	cacttgctcc	attgtcaaca	gacctgaac	aaaatgacta	ggtgtttcac	240
tgcaaaactga	atggatctgt	ccgtttacta	ttggaattat	cttagctaaa	ggcaggctga	300
cactggaaag	actattcata	gagttacat	gttgcaggtc	ctgttcagta	ggtcgaaaga	360
actcagccat	attgtctaga	agtctactaa	aacctcggtt	taaacaggta	ttcaaaactg	420
tactaaaatc	tgggctttcc	aacatgtctc	tagtttcatt	gagaagttta	atagtggtaa	480
tgtctcgagg	agaangtcca	caggcctgca	ctgctaattg	agttttcttca	tctggcatca	540
tataatg						547

&lt;210&gt; 78

&lt;211&gt; 499

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(499)

<223> n = A,T,C or G

<400> 78

cctttttttt	tttttttttt	tttnnaaaaa	aaatcttttt	ttatttcaaa	gattgcttct	60
tatattgaag	ctcatattaa	agcaacagta	caatgttcat	aaaatataag	tgtgatgccg	120
taacattttc	ttacatgtca	gaatactgat	atttatatgt	atactaaaat	aagaacttta	180
aaattgtaca	aatagataca	ttaaaaatga	catagaaata	gggcgtctnt	cactgaaaca	240
agacagttaa	atctggcagc	tattagttaa	agatgaaagt	agaagcaaaa	agatttacaa	300
gaatcagcag	taacaagatt	gatgctcaag	agacataatt	gtacattgna	ttgtacatac	360
attgtatggg	tttaagctgg	ctgaatntta	tatatattcaa	gtttaaaaat	gcactacata	420
tagagtgtcc	agagttaaag	gcgaaattac	agctcanaac	tgntgncctt	tctaattttg	480
gggaagcttn	tttgacaac					499

<210> 79

<211> 370

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(370)

<223> n = A,T,C or G

<400> 79

cctttttttt	tttttttttt	ttttaaggag	caatgacatt	tcctagaagt	tactttaaga	60
atttccctag	agggtcgggt	atcatctcan	ccagatcttt	ctcatccttc	aaggccctgt	120
ttggtacagc	ttgctaggaa	gctgttccag	actgcagcag	ccctctctgg	ggtctctcta	180
ccacttccca	ggcactcana	acttgtgcct	cannanactg	ttttgtggca	ctgnccatt	240
ctctgattct	ccatgtgagc	tggtttttatc	ccatccagca	tggtctgtgaa	atcctaaagg	300
ttcaaaccoc	agccactctt	cacctatatt	tcccccaaat	ggctagcacg	ggaaagggcc	360
caaagtagg						370

<210> 80

<211> 428

<212> DNA

<213> Homo sapien

<400> 80

gtcgacaaaa	aggaaggaa	ggagagacag	ataactctca	gtcattttaa	aaactacaat	60
aaaatattat	gaattatcaa	ttagatcaaa	gttcctcaca	gctatatatta	tataggtaaa	120
aaaaaattaa	ataggctaaa	tgcccaaaaa	tttaagactg	gcaaaatata	cttggctaaa	180
tactgtgcgt	ctctattaaa	taccatgttt	cagaagaatt	attaatgaca	tgagaatatg	240
ctcaaaatac	atattgatat	gtgcaaaatac	atattgcaaa	gtaagattat	agaatgatcc	300
tagttcaaaa	atgtcacata	tatatgtatt	taaaaaaaaa	ggcagtttaag	atttacaaca	360
aaatgttagt	ggtgggacct	tctggtagga	atacagattt	ttttttattc	agaagttttt	420
tgatgtcg						428

<210> 81

<211> 533

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(533)

<223> n = A,T,C or G

<400> 81

```

cctttttttt tttttttatt tttaaaattt ttttattttg aaataattat aaattatcag      60
aaagttgcaa acaaagccca gtcagggtccc atgtaccagt ttcactgccca ccatcttttaa    120
aggaggatta gacgaatctg actgctaaaa gtggcccagg gattctggag aaaatccaac      180
aggtttgcta tcaggaaagc aattttcactt acaattcagg tttgactgca agtgaaagtg      240
gttgaaacaa gtgagaagnt gattgcttcc tcatataata gtctaaatgt aggtgtccaa      300
gcctggaata gaggtcctgg tcctctaagt tctcaggaaac acaggcttct tttagccact      360
ccacatctct aggggtgtgt cctcatggtc caaaatggng actggaattc cagccatcac      420
atntgctttc caggcagcaa aatggaagaa ggggcacana agaacagaga tgacaatagg      480
tataaacaag ctctcttttt aaaggagatt ccaggagct. gctacatgac act              533

```

&lt;210&gt; 82

&lt;211&gt; 493

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 82

```

gtcgaccgcg gaagatgcag ctcaagccga tggagatcaa ccccgagatg ctgaacaaag      60
tgctgtcccg gctgggggtc gccggccagt ggcgcttcgt ggacgtgctg gggctggaag    120
aggagtctct gggctcggtg ccagcgcctg cctgcgcgct gctgctgctg tttccctca      180
cggcccagca tgagaacttc aggaaaaagc agattgaaga gctgaaggga caagaagtta      240
gtcctaaagt gtacttcatg aagcagacca ttgggaattc ctgtggcaca atcggactta      300
ttcacgcagt ggccaataat caagacaaac tgggatttga ggatggatca gttctgaaac      360
agtttctttc tgaacagag aaaatgtccc ctgaagacag agcaaaatgc tttgaaaaga      420
atgaggccat acaggcagcc catgatgccg tggcacagga aggccaatgt cggggtagat      480
gacaaggtga att                                     493

```

&lt;210&gt; 83

&lt;211&gt; 501

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(501)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 83

```

cctttttttt tttttttgta ataaagacac tgcttttatt tagtttgata tgtttcttta      60
cagaatgcag aaaacacatc ttaaaatcat atagaaggaa ataaaaacac atcagtgggt      120
ggtgaacact tgaatgtgag attggctctc catctcacag agtccaacgg ccatcaccag      180
cccagcgctc aggggagcag gctgcctgca aaggcattgt tgctgtttgtt attctgttca      240
ctgccccatc gcctccagtt gctatggcaa caggccattc tgggccagcc acgtctctgc      300
atggcagtgc ccaatggtgg agttgctagg ggcgacggag ctgttttgaa ggcctttcaa      360
agccctcacc tggaacattg ggaattgttt attttttgat gaggnatca gaaataatct      420
tcaccaggtc agatccact tgtgctcctg tctctggggc accaggggaa actctgactt      480
ggaggcatga gccagtcac c

```

&lt;210&gt; 84

&lt;211&gt; 454

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(454)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 84



```

cctttttttt tttttttttt ttttatgcta ataaaacatc ataatttaag gactacactg      60
cattttttta ttccataaat tataatcctt taacataat gaaagtttca tattctttaa      120
gnagcttttaa atataatttaa ttttttttaac aagtggaaaa gaatgtttct taaaagacat      180
ttaatttttt agtggaaatt aatattacca aaaacattct gtgcataaca atttgaataa      240
caattttttt atcttcaaga aatgggattt ttatataaaa tacacatgta gcactgaatg      300
ccaaagtgat gggatccat ggtcanaatt caaaattaga ttcgctatta aacctgtctg      360
gtttgtgtcc tgagtgaana atgatctcga gctggggagg gaggtgcatt gggtaatcag      420
tgcttttgaa ggtgaatttc cttgctgnga aata                                     454

```

&lt;210&gt; 85

&lt;211&gt; 509

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(509)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 85

```

gtcgaccgct ctcagctctc ggcgacggc ccagcttcct tcaaaatgct tactgttcac      60
gaaatcctgt gcaagctcag cttggagggt gatcactcta caccccaag tgcatatggg      120
tctgtcaaag cctatactaa ctttgatgct gagcgggatg ctttgaacat tgaacagcc      180
atcaagacca aaggtgtgga tgaggtcacc attgtcaaca ttttgaccaa ccgcagcaat      240
gcacagagac aggatattgc cttgcctac cagagaagga ccaaaaagga acttgcacat      300
gcactgaagt cagccttacc tggccacctg gagacgggtga ttttgggcct attgaagaca      360
cctgctcagt atgacgcttc tgagctaaaa gcttccatga aggggctggg aaccgacgag      420
gactctctca ttgagatcat ctgctccaga accaaccagg agctgcagga aattaacaga      480
gtctacaang aaatgtacaa gactgatct                                     509

```

&lt;210&gt; 86

&lt;211&gt; 520

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 86

```

gtcgacgggc gccagggtct ttgtggattg catgttgaca ttgaccgtga gattcggcct      60
caaaccaata ctgccttttg aatatgacag aatcaatagc ccagagagct tagtcaaaga      120
cgatatcacg gtctacctta accaaggcac tttcttaagc agaaaatatt gttgaggtta      180
cctttgctgc taaagatcca atcttctaac gccacaacag catagcaaat cctaggataa      240
ttcacctcct catttgacaa atcagagctg taattcactt taacaaatta cgcatttcta      300
tcacgttcac taacagctta tgataagtct gtgtagtctt ccttttctcc agttctgtta      360
cccaatttag attagtaaag cgtacacaac tggaaagact gctgtaataa cacagccttg      420
ttatttttaa gtcctatatt gatattaatt tctgattagt tagtaaataa cacctggatt      480
ctatggagga ctcggtctt catccaagtg gcctgagtat                                     520

```

&lt;210&gt; 87

&lt;211&gt; 171

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(171)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 87

```

gtcgacgagt acagtatcag ctgagctgac cttactctga ggactaactc ttttgctgga      60

```

35

```

agcgggtttct gatttacagc tcttggtttc tcccagacat gttggtggga gagattttgg 120
ttttaagggt gttgttagat ggagtaaann ttctttaagn ntttaattttt t 171

```

```

<210> 88
<211> 508
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(508)
<223> n = A,T,C or G

```

```

<400> 88
cctttttttt tttttttttt tttttgnagt aaaaaatctt tatttccaaa atgatttggt 60
agccaaaaga actataaacc acctaacaag actttggtta gaaagagact tgatgcttct 120
tataaattcc ccattgcaaa caaaaaataa caatccaaca agagtcattgt taccattct 180
tagccattaa cctgggtttt agtctccaaa atcaggattt taaaatgtac ccaactggga 240
ccaaatacaa acatgagaca ctaggngggc ttgtccttga ttaggaatca ccagcttaag 300
gaactttatc atgggctgag agttagatag atagcttana acaacattgc aaaagnggg 360
gcttctacat gaggactttt ttccccccaa gttagaaaaat aattaaatct tngttttctt 420
tatattnggc tttttttggg agaaagcaat tcatttaagg atttaaaaca tgttgatac 480
aaaggtaggt canagatgta ataatggt 508

```

```

<210> 89
<211> 508
<212> DNA
<213> Homo sapien

```

```

<400> 89
gtcgacggga taaatagaaa gcagaatgaa ttaatggaaa agaactcggc tgtaggcca 60
ttctctaaat tctagtttag ccaaaagttt atgtgtgggt tggggcttca tttatttctc 120
tcatgagtaa aatggaataa tacctaacag gcaggctctg gaagttggaa atcacatata 180
cacacacaca cacacagaca cacacacaca cgatcaatca tgtagctcat attagatgtt 240
caataaataa cagctactac agatgcctat cagttgagta agtagttcat taaattgagc 300
tccaaaaggt ctcttctctt cacatccata tccgtttctg cagcaatcaa atagatacat 360
gattgttttt ctgtaagaaa ttactgcaaa gagaatcttt ttctcctact aactgttcct 420
tctacctggt ataggagata aatgtacgtt tcttaattag ctgacttttt agtatgtcat 480
ttctgaagga aaaataaatt aaccttaa 508

```

```

<210> 90
<211> 531
<212> DNA
<213> Homo sapien

```

```

<400> 90
gtcgacacga gtcccgcggt ctctccttga atccactcgc cagcccgccg ccctctgcgc 60
ccgcaccctg cacaccgcc cctctcctgt gccaggaact tgctactacc agcaccatgc 120
cctaccaata tccagcactg accccggagc agaagaagga gctgtctgac atcgctcacc 180
gcatcgtggc acctggcaag ggcatcctgg ctgcagatga gtccactggg agcattgcca 240
agcggctgca gtccattggc accgagaaca ccgaggagaa ccggcgcttc taccgccagc 300
tgctgtctgac agctgacgac cgcgtgaacc cctgcattgg ggggtgcata ctcttccatg 360
agacactcta ccagaaggcg gatgatgggc gtcccttccc ccaagttatc aaatccaagg 420
gcggtgttgt gggcatcaag gtagacaagg gcgtgggtccc cctggcaggg acaaatggcg 480
agactaccac ccaagggttg gatgggctgt ctgagcgctg tgcccagta a 531

```

```

<210> 91
<211> 426

```

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 91

gtcgacaatt gaggcctaca agagagggga gcctaggagc ttggattgac cttctagtca	60
accacctgac ttcagcacac cattacaatc gggagactaa accaacaacc agaggatcta	120
aaatgtcaca ttcagatttt caggaagaaa atcttcatta cagtggagca caaatgttcc	180
atacaagaca tcattgagga gccatgctgt ccccttctaa cctgaaacac attctttccc	240
atcctgggtg ggcttctgta cctccttatt aattttatgaa cctgaagtig cttgaagtgt	300
tttgggctta ataaatgggg tgaaagtata ggtagcagta acacctacat gaaacaatac	360
accttggatc ttttaatcta aattactttt cttttttaag tctactttta aaataaatac	420
ttctgt	426

&lt;210&gt; 92

&lt;211&gt; 223

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 92

gtcgactttt aaagcaattg actaggagaa actatttgta gcttatataa caaggactat	60
atataaataa aaaactatct ctatgaaaaa cttaaaaatta cacacagtcc gatgaaata	120
atcatatatt aaaaaggcaa accagaaaaa taaatacaga tgaccaaaat ccatgtgaca	180
tatttggcct aattagtaat tagaaaaaaa aaaaaaaaaa aaa	223

&lt;210&gt; 93

&lt;211&gt; 486

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(486)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 93

cctttttttt tttttttttt tttttttttt tctcaaatat ccaattttat tttatcattc	60
tcgcattggg ggatgcgac tgcagctagg atcggaattc ccaggcctat anatttttaa	120
accacaccac aggggtaaac cttaaaagaa gngaaacctt acactatata tatttccatt	180
tctaaataca gtatattaca naagttttaa tatnccacct ntgngtactt acaactntaa	240
aaagatncaa tanctctacc aattataaat aatgtancat ttcataataa agacattatc	300
gtncaatgga anaataggaa cctntaacg tatcactatc aagggttagng tctatatcta	360
cttganataa aatactgaaa attcagncta tgaagccaaa tcctgattta acaagttatt	420
ggtagtataa gtgataagtg ttanctgatg aagggaaggc aaatgtggta atttatatct	480
ctgaca	486

&lt;210&gt; 94

&lt;211&gt; 214

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(214)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 94

cctttttttt tttttttttt tttttttttt ttttngcaa cacaagtcaa tctttattga	60
aaactgcagt attaatacat aacaattctt gttacaataa acgtgctttt ganattttta	120

aatctgagct catctcatca gattgcataa aaaattaaaa tagtntcaat tgacacctaa 180  
ctgaactggc tcaggatgga aattccattc cttg 214

<210> 95  
<211> 463  
<212> DNA  
<213> Homo sapien

<400> 95  
gtcgaccaga attcagagcg aatggtcaca gttggtcgct gggcaaaggg aatgagtgc 60  
gactatgaag aaatttttga tgtacctaaa ccgcaaaaac caaaaacaaa aatacctaaa 120  
gttgtaatt tttgataaca gctagcacta tcatgagtta ctacctcatt gttactttct 180  
aaaccaggcc cgcttcacga gttagagttg agctcccctg tagccaggac tatgctgtag 240  
atatcagtat gatctgggtg tggccaaaaa caattttctt tattctgtct atcaaatagt 300  
acttctacca ctgtttggag aaaattgaag aaaagaataa gatgattaaa tgaattctct 360  
aaaagaacat attttaagag acagaactta gacataacca agtagttgta tacctgattg 420  
taacaatcat cttttataaa agcaaaaatta tgcataaatg taa 463

<210> 96  
<211> 606  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(606)  
<223> n = A,T,C or G

<400> 96  
gtcgacttta aaagtgcctc ggcactcctgt attacatgtc atagaattgt aaagtcaaca 60  
tcaattacta gtaatcattc tgcactcact ggggtgcatag catggttaga ggggctagag 120  
atggacagtc atcaactggc ggatatagcg gtacatatga tccttagcca ccagggcaca 180  
agcttaccag tagacaatac agacagagct tttgttgagc tgtaactgag ctatggaata 240  
gcttctttga tgtacctctt tgccttaaat tgctttttag ttctaagatt gtagaatgat 300  
cctttcaaat tgtaatcttt tctaacagag atattttta atacttgctt tcttaaaaaa 360  
caaaaaaact actgtcagta ttaatactga gccagactgg catctacaga tttcagatct 420  
atcattttat tgattcttaa gcttgtatta aaaactaggc aatatcatca tggatacata 480  
ggagaagaca catttacaat cattcattgg gcctttttatc tgtctatcca tccatcatca 540  
tttgaggcct aatatatgcc aagtactcac atggtatgca ttgngacata aaaaagactg 600  
tctata 606

<210> 97  
<211> 530  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(530)  
<223> n = A,T,C or G

<400> 97  
cctttttttt tttttttgta gattttttgc tatgttactc aggctgggtct tggactcctg 60  
ggctcaagcg atcctcccac cttggcttcc caaagtgccca ggattatagg catgagccac 120  
catgctcggc ctgctccttt tcttgaaaca cctcctctgt ggtttagatt ccaggagact 180  
ggaatggtct gcctgggtgg gctgctgagt cagggacctg aggtgtttgt tcaactgggga 240  
ggcgggttca gatcaggaat gtaaggatga tggaaagaag ggagtcactc tggtttggtg 300  
ggactgggga gcaatcttga tcacgggccac ttacagcttc tgccattgtc cttcaccact 360

atctcagcat	ctcggtcct	cacgatgtcc	ctccagtcaa	ttgtgtccat	gtgacaaagc	420
ttatcgttct	tctcaatata	aacaccccct	gacagaatct	cggtgagctg	agtcaagcgg	480
agctggcgca	nagcgtggct	ggagttggtg	ttatagttca	acatgacgaa		530

&lt;210&gt; 98

&lt;211&gt; 479

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(479)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 98

gtcgacggtt	agttttctgcg	acttgtgttg	ggactgctga	taggaagatg	tcttcaggaa	60
atgctaaaaa	tgggcaccct	gcccccaact	tcaaagccac	agctgttatg	ccagatggtc	120
agtttaaaaga	tatcagcctg	tctgactaca	aaggaaaata	tggtgtgttc	ttcttttacc	180
ctcttgactt	cacctttgtg	tgccccacgg	agatcattgc	tttcagtgat	agggcagaag	240
aatttaagaa	actcaactgc	caagtgattg	gtgcttctgt	ggattctcac	ttctgtcatc	300
tagcatgggt	caatacacct	aagaaacaag	gaggactggg	acccatgaac	attccttttg	360
tatcagaccc	gaagcgaccc	attgctcang	attatggggt	cttaaaggct	gatgaaggca	420
tctcgttcag	ggggcctttt	tatcattgat	gataagggtg	ttcttcggca	gatcactgt	479

&lt;210&gt; 99

&lt;211&gt; 502

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(502)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 99

cctttttttt	tttttttgta	agtttaaatt	tattttttta	aaatgcttgt	cttcctcact	60
agacaatcaa	ctctatgagg	gcagagacta	tgccaccact	gtcccaccag	cccctggcac	120
acagtaggta	ctcaataaat	atatgttgga	aggatggatg	gaggtaatgg	atggaaagat	180
ggatggaagg	atgaatggag	ggatggatgt	gaccagctg	aagtgtgagt	aggaacattc	240
tcttattatg	ggtggaggaa	agagagagga	gattgagaaa	ataagataaa	atacattgat	300
gagcatcatt	tttgggtgtc	gaaaagtagg	attgaattag	gactaataaa	tctagagaat	360
tttacctctt	tcaatgccca	agccacactt	ttctatcact	ttgaaaccga	aaaagtaaat	420
actttcccaa	catttgcttt	gctggtagga	aatgctttta	taaaaatgca	atctctangt	480
tgccatggca	tcattaaaag	aa				502

&lt;210&gt; 100

&lt;211&gt; 537

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 100

gtcgaccctt	tccataaatc	cttgatgatt	gacaacaccc	atthttcctt	ttgccgaccc	60
caagagtttt	gggagttgta	gttaatcatc	aagagaattt	ggggcttcca	agttgttcgg	120
gccaaggacc	tgagacctga	agggttgact	ttaccattt	gggtgggagt	gttgagcatc	180
tgtcccccct	tagatctctg	aagccacaaa	taggatgctt	gggaagactc	ctagctgtcc	240
tttttctctt	ccacacagtg	ctcaaggcca	gcttatagtc	atatatatca	cccagacata	300
aaggaaaaga	cacatthttt	aggaaatggt	tttaataaaa	gaaaattaca	aaaaaaaatt	360
ttaaagaccc	ctaacccttt	gtgtgctctc	cattctgctc	cttcccatc	gttgccccc	420

```

tttctgaggt gcactgggag gctccccttc tatttggggc ttgatgactt ttctttttgt 480
agctggggct ttgatgttcc tttccagtgt catttctcat ccacataccc tgacctg 537

```

```

<210> 101
<211> 611
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(611)
<223> n = A,T,C or G

```

```

<400> 101
gtcgacctaa aatgaagtgt ttgaaatcag aaatctatct ctaatgtctc atagcttttaa 60
aactattttt gtccttatac tcatacttgt tattttatct tattcatcct atatagccat 120
ttgactgaaa tgtagaaaat aattttattaa attgagaaaa tatgcaggca ttgaacaatc 180
tttcaagtat ttgaataaaa aattcaaat attatagatt gcctggaatt gttaagactg 240
tcagaaggtc agctcattga tagctaagta gtatacactc tgaaaaacag aatgtagaaa 300
tggtgtttat aaaagctgac ctctagagta aaggaggacc cagcatgtgt aattcttcct 360
cttaatactt taagaccact aatttgagga cttatggttt ctcaccactg cactcttgca 420
gctttcaaga aagtacttaa gttttaaatg cccaggtgat ttctaagact cttgaataga 480
attggttggg ttctctgat attgcatttt catgagaaaa aatttcagtg gtacattaat 540
ttttattttt ctttttgctt atagacttcg catatcattt aaagtgatgg ttcgagcttn 600
ctctggatac t 611

```

```

<210> 102
<211> 498
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(498)
<223> n = A,T,C or G

```

```

<400> 102
cctttttttt ttttttttta acgcatatct gtttttattt ataggttaact accacatgaa 60
ttataaagac aacaaaggat gtcagaatga acatggatag gtgtatgcat actacggcta 120
aggagaaaca atgttcctac atattatggg tagtgagaac attatctgta taacagggaa 180
ctgtgattat ttaaaaaatat gcagaactta tttcatctgt gctttanaaa taactgtata 240
cagtgttata agttgaaaag aactcaaaat aactaatacc aaatatacac ctatgtatta 300
naattcaaaa aagctgcttt ctgtgaagtc aatcagctat attaaaaaat gacacaaatc 360
caaaacaaga tgcattgtat atataaaggg acattgtaag tttccttgct gcattaaacc 420
catggtttta tccatgaaat ttctttttaa ttatcattta gacagaagca tgcaaatagt 480
ctcaggatct acttaaga 498

```

```

<210> 103
<211> 446
<212> DNA
<213> Homo sapien

```

```

<400> 103
gtcgactctt ggtgtttttg tatttccacc tcacccccag cacatagccc agtctcttgc 60
acaaattaag tacttaatgt gtgttgagct aaattgaata aaggattatt agcattagca 120
tattttgtgc cttggttgta taagctgggt gtttgttttg ttacctttgc aaatatttat 180
gattatcacc cccccacata cttaaattgtt tttaaaagtt ttgcctttcc ttcagatact 240
acccaggcca atttgctgta gataatgtga ttgcttccaa tgacataatt atcccaaat 300

```

ctctgccccg gatatacttt gccaaacgaa atttgaattc tctgaataaa ttggatcatgt	360
cctaaaaaaaa aaaaaaaaaa aaaaaaagg gggcccgctc gaggctagag ggccccgttt	420
taaacccccg tgatcagcct cgactg	446

&lt;210&gt; 104

&lt;211&gt; 286

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(286)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 104

gtcgaccttc gttatccgag atgcgtntcc tggcagctac attcctgctc ctggcgctca	60
gcaccgctgc ccaggccgaa ccggtgcagt tcaaggactg cggttctgtg gatggagtta	120
taaaggaagt gaatgtgagc ccattgcccc ccaaccctg ccagctgagc aaaggacagt	180
cttacagcgt caatgtcacc ttaccagca atattcagtc taaaagcagc aaggccgtgg	240
tgcatggcat cctgatgggc gtcccanttc cctttcccat tctga	286

&lt;210&gt; 105

&lt;211&gt; 406

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(406)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 105

gtcgacgcgt agcagagtgg tcgttgcttt tctaggcttc agccggtcgt cgcgacgttc	60
gcccgctcgc tctgaggctc ctgaagccga aaccagctag actttcctcc ttccgcctg	120
cctgtagcgg cgttggtggc actccgccac catgttcgag gcgcgcctgg tccagggctc	180
catcctcaag aagggtgttg aggcactcaa ggacctcatc aacgaggcct gctgggat	240
tagctccagc ggtgtaaacc tgcagagcat ggactcgtcc cagctctctt tgggtgcagct	300
caccctgcgg tctgagggtc tcgacaccta ccgctgcgac cgcaacctgg ccatgggcgt	360
gaacctcacc agtatgtnc aataactaaa atgcgccggc aatgaa	406

&lt;210&gt; 106

&lt;211&gt; 258

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(258)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 106

gtcgacgatt tttttgtac attttgctg cagtattggt ggtagaatat actataatat	60
ggatcatctc tacttctgta tttatttatt tattactaga cctcaaccac agtcttcttt	120
ttccccttcc acctctcttt gcctgtagga tgtactgtat gtagtcatgc actttgtatt	180
aatatattan aaatctacag atctgttttg nactttttat actgttggat acttataatc	240
aaaactttta ctagggta	258

&lt;210&gt; 107

<211> 369  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(369)  
 <223> n = A,T,C or G

<400> 107  
 gtcgacgtaa aatagaaaca gaaggggact ttatcaacct gattaacttt ctcaacatgt 60  
 taaccctaca gttaacatta taatcaatgg tgaatcattg agtactttcc ttctaagatc 120  
 agaaacagtt caaagtcac tctcaccatt tctattcaac attgtactgg aatcccagcc 180  
 agtgcagtaa taccaataat aaaaaattaa agtcataaag attgaaaagg atgaagtaaa 240  
 gctatttcaa ttntatttag aagtatttag aaaccccaaa gaatctacaa aaaactaata 300  
 gaaataagtg aatatatgaa ggtcttacta tacaagatca acatatcaaa agcagtggta 360  
 ttttaagaaa 369

<210> 108  
 <211> 289  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(289)  
 <223> n = A,T,C or G

<400> 108  
 gtcgacattg catccttgaa atcctgggct caggatgatcc tcccgcctga gcctcctgag 60  
 tatctgggac tacagatgcg tgccaccaag cctggctaatt ttgtctcat gtcttctaaa 120  
 aattattttg tgaagcccct tcacaaaaaa ccttaaggga aatctgatgg tgctcaggaa 180  
 tctaactctc cctaaacat cctctttaac tgcttctaaa atatctctgt tggcctttct 240  
 tanccctttt ctgtttccat tcagtgtctc aagcgtttt tgtttctaa 289

<210> 109  
 <211> 444  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(444)  
 <223> n = A,T,C or G

<400> 109  
 gtcgacctgg cggtggcacc gctgaggaat gggcctgggc ggggaggagac atctctacac 60  
 cgttcccac cggaacagg gcaacatcta caagcccaac aacaaggcca tggcagacga 120  
 gctgagcgag aagcaagtgt acgacgcgca caccaaggag atcgacctgg tcaaccgcga 180  
 ccctaaacac ctcaacgatg acgtggtcaa gattgacttt gaagatgtga ttgcagaacc 240  
 agaagggaca cacagttttg acggcatttg gaaggccagc ttcaccacct tcaactgtgac 300  
 naaatactgg ttttacgct tgctgtctgc cctctttggc atcccgatgg cactcatctg 360  
 gggcatttaa ctctgccatt ctctctttcc tgcacatntg ggcagttgta accatgcatt 420  
 aagagcttcc tgattgagat tcag 444

<210> 110  
 <211> 196  
 <212> DNA



<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(196)

<223> n = A,T,C or G

<400> 110

cctttttttt	ttttttcatt	aaataancca	tcatcacatt	agtacaatac	aattttatat	60
tttttaaata	tactatata	gttaaggata	aggggtgaag	ttttcttcct	ttgtaatacc	120
tggtcaagag	tttaatggat	taggagatta	gngttaacct	tgaggataaa	agtncaaatt	180
tgtctcatta	ggacac					196

<210> 111

<211> 544

<212> DNA

<213> Homo sapien

<400> 111

gtcgacctca	gccggtcgtc	gcgacgttcg	cccgtctcgt	ctgaggetcc	tgaagccgaa	60
accagctaga	ctttctctct	tcccgcctgc	ctgtagcggc	gttggttgcca	ctccgccacc	120
atgttcgagg	cgcgcctggt	ccagggctcc	atcctcaaga	aggtgttgga	ggcactcaag	180
gacctcatca	acgaggcctg	ctgggatatt	agctccagcg	gtgtaaacct	gcagagcatg	240
gactcgtccc	acgtctcttt	ggtgcagctc	accctgcggg	ctgagggcct	cgacacctac	300
cgctgcgacc	gcaacctggc	catgggcgtg	aacctcacca	gtatgtccaa	aataactaaa	360
tgccgcggca	atgaagatat	cattacacta	agggccgaag	ataacgcgga	taccttggcg	420
ctagtatttg	aagcaccaaa	ccaggagaaa	gtttcagact	atgaaatgaa	gttgatggat	480
ttagatgttg	aacaacttgg	aattccagaa	caggagtact	gctgtgtagt	aaagatgcct	540
tctg						544

<210> 112

<211> 378

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(378)

<223> n = A,T,C or G

<400> 112

gtcgacacgg	cttccgcacg	gtcatccgcc	ccttctacct	gaccaactcc	tcaggtgtgg	60
actagacggc	gtggcccaag	ggtggtgaga	accggagaac	cccaggacgc	cctcactgca	120
ggctcccctc	ctcggcttcc	ttcctctctg	caatgacctt	caacaaccgg	ccaccagatg	180
tcgccctact	cacctgagcg	ctcagcttca	agaaattact	ggaaggcttc	cactaggggtc	240
caccaggagt	tctcccacca	cctcaccagt	ttccagggtg	taagcaccag	gacgccctcg	300
aggttgctct	gggatcccc	cacagcccct	ggnccagtctg	cccttgncac	tggtctgaag	360
gtcattaaaa	ttacattg					378

<210> 113

<211> 530

<212> DNA

<213> Homo sapien

<400> 113

gtcgacgtcg	ttgtctttct	aggtctcagc	cggctcgtcg	gacgttcgcc	cgctcgtctc	60
gaggctcctg	aagccgaaac	cagctagact	ttcctccttc	ccgcctgcct	gtagcggcgt	120
tggtgccact	ccgccacat	gttcgaggcg	cgctgtgtcc	agggctccat	cctcaagaag	180

gtgttgagg	cactcaagga	cctcatcaac	gaggcctgct	gggatattag	ctccagcggt	240
gtaaacctgc	agagcatgga	ctcgtccac	gtctcttttg	tgcagctcac	cctgcgggtct	300
gagggcttcg	acacctaccg	ctgcgaccgc	aacctggcca	tgggcgtgaa	cctcaccagt	360
atgtccaaaa	tactaaaatg	cgccggcaat	gaagatatca	ttacactaag	ggccgaagat	420
aacgcggata	ccttggcgct	agtatttgaa	gcaccaaacc	aggagaaagt	ttcagactat	480
gaaatgaagt	tgatggattt	agatgttgaa	caacttgga	ttccagaaca		530

&lt;210&gt; 114

&lt;211&gt; 178

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 114

gtcgacattt	cttcctaata	ttctataatc	tccaactcct	gaaaaccct	ctctcaacta	60
atactttgct	gttgaaatgt	tgtgaaatgt	taagtgtctg	gaaatttttt	ttttctaaga	120
aaaactatta	aagtacttcc	tagtagggca	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	178

&lt;210&gt; 115

&lt;211&gt; 211

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(211)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 115

cctttttttt	ttttttttng	gntcaatctt	ttattttgga	caaaggaaaa	aaggactgac	60
accagtttag	cctttgagtg	tgcaaagctc	tgccctccct	cccaccctn	agccccaaat	120
ccaanatttc	atagccctaa	caccaccca	agcagnttcc	ctcacacatg	ccctttgntt	180
tcttctcttc	ttctatggtt	cottaggnaa	a			211

&lt;210&gt; 116

&lt;211&gt; 439

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 116

gtcgacctgt	cactcactac	atgaataagc	aaatattgtc	ttcaaaagaa	tgcaaaagaa	60
ccacaattaa	gatgtcatat	tattttgaaa	gtacaaaata	tactaaaaga	gtgtgtgtgt	120
attcacgcag	ttactcgctt	ccatttttat	gacctttcaa	ctataggtaa	taactcttag	180
agaaattaat	ttaatattag	aattttctatt	atgaatcatg	tgaaagcatg	acattcgttc	240
acaatagcac	tatttttaa	aaattataag	citttaaggta	cgaagtattt	aatagatcta	300
atcaaatatg	ttgattcatg	gctataataa	agcaggagca	attataaaat	cttcaatcaa	360
ttgaactttt	acaaaaacca	cttgagaatt	tcattgagcac	tttaaaatct	gaactttcaa	420
agcttgctat	taaatcatt					439

&lt;210&gt; 117

&lt;211&gt; 357

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 117

gtcgactcca	aattgacttt	gcagcagggt	ggcagggtca	ggagagtctg	gtcctgccta	60
gctcagatgt	catggcacct	gcacttgaag	caagtcactt	ctttatcaca	ggtgtcttga	120
aacattagct	tcctttacca	acctgagaaa	attagatga	cctggcaaat	aagatcttga	180
ataggccaaa	agcaagtatc	ttgctgtgtg	tagtctcttg	gttaaaagta	agaaacagta	240

ctgttcacac	ctttcttcac	tgagattcca	gtgtacatga	gaacatatat	ttattgcatg	300
atthttctaga	tacacagtct	atgcattatt	catatacatt	tatttttagcc	taaagtg	357

&lt;210&gt; 118

&lt;211&gt; 431

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 118

cctccctgag	gaaattagga	acctgttggc	agatgttgaa	acattttag	cagatatat	60
gaaaggagaa	aatttatcca	agaaagcaaa	ggaaaagaga	gaatccctta	ttaagaagat	120
aaaagatgta	aagtctatct	atcttcagga	atttcaagac	aaaggatgat	cagaagatgg	180
ggaagaatat	gatgaccctt	ttgctggggc	tccagacact	atttcattag	cctcagaacg	240
atatgataaa	gacgatgaag	ccccctctga	tggagcccag	tttccctcaa	ttgcagcaca	300
agaccttctt	tttgttctaa	aggctggcta	ccttgaaaaa	cgcagaaaag	atcacagctt	360
tctgggattt	gaatggcaga	aaacgggtgg	gtgctctcag	taaaacggta	ttctattatt	420
atggaagtga	t					431

&lt;210&gt; 119

&lt;211&gt; 131

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 119

cccctcgccc	gtcacgcacc	gcacgttcgt	ggggaacctg	gcgctaaacc	attcgtagac	60
gacctgcttc	tgggtcgggg	tttcgtacgt	agcagagcag	ctccctcgct	gcgatctatt	120
gaaaggtcga	c					131

&lt;210&gt; 120

&lt;211&gt; 409

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 120

gtcgacgtaa	aagccacaca	gaaatcaaaa	gataagaata	tagtttcagc	taccaaaaag	60
cagcctcaga	ataaaaagtc	atttcagaag	acaggaccca	gtccttgaa	gtctcctggc	120
cgtacccac	tgtccatcgt	gagcctaccc	cagtcttcta	ccaaaacaca	aactgcaccg	180
aagtcagcac	agactgtcgc	taagagccag	cattcaacta	aagggcctcc	cagaagtggc	240
aaaaccccag	cttcaatcag	gaaaccaccc	tcatctgtta	aggatgcaga	tagtggagat	300
aaaaaaccta	ctgcaaagaa	aaaggaagat	gatgaccatt	attttgtcat	gactggaagt	360
aagaaaccta	gaaaataaat	acatactcat	tataaaaaaa	aaaaaaaag		409

&lt;210&gt; 121

&lt;211&gt; 131

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 121

cccctcgccc	gtcacgcacc	gcacgttcgt	ggggaacctg	gcgctaaacc	attcgtagac	60
gacctgcttc	tgggtcgggg	tttcgtacgt	agcagagcag	ctccctcgct	gcgatctatt	120
gaaaggtcga	c					131

&lt;210&gt; 122

&lt;211&gt; 130

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 122

45

```

gtcgaccttt caatagatcg cagcgaggga gctgctctgc tacgtacgaa accccgaccc 60
agaagcaggt cgtctacgaa tggtttagcg ccaggttccc cacgaacgtg cgggtgcgtga 120
cgggcgaggg                                     130

```

```

<210> 123
<211> 424
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(424)
<223> n = A,T,C or G

```

```

<400> 123
gtcgacgaga tgtggagtggt ctaaaagaag cctgtgttcc tgagaactta gaggaccagg 60
acctctattc caggcttgga cacctacatt tagactatta tatgaggaag caatcaactt 120
ctcacttggt tcaaccactt tcacttgcag tcaaacctga attgtaagtg aaattgcttt 180
cctgatatga aacctgttgg attttctcca gaatccctgg gccactttta gcagtcagat 240
tcgtctaata ctccctttaa gatggtggca gtgaaactgg tacatgggac ctgactgggc 300
tttgtttgca actttctgat aatttataat tatttcaaaa taaaaaaatt ttaaaaaata 360
aaaaaaaaaa aaagggcggc cgctcggagt ctagagggcc cgtttaaacg cgntgatcag 420
cctc                                     424

```

```

<210> 124
<211> 548
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(548)
<223> n = A,T,C or G

```

```

<400> 124
cctttttttt tttttttctc tagtaatgac tttattcatg aatctataat ggaattcaaa 60
atagcaaaga acatgaaaat gttcanatta atatttatta accaaatgca tcaaaaaata 120
catctatttt cacatatcaa aagtgcctaa aatgcatgtg anaatataaa tattctccac 180
tttngngaac ttcaagataa tgaaaaattg cttaabacac tttgccacaa aaactcatta 240
cactgcaaata ncagaanaaa taaaataact cattacattg cagatncaa agaaatcaaa 300
tgtaactggc aaaataacca ttcatggct aatctttngg naaagngcta ttttcacact 360
gaaaaaaaga anttagaaaa gattaaaaat tttaaattct gaaccatcat tctnaaagtc 420
tgaagcgttt tcttttagtat tcactatggt catcacattc atgtgtncac aacatgagac 480
taaacactat ctcaaaatct taaaaaatct ttccatncac anattatttc ctggaagnta 540
aaaattat                                     548

```

```

<210> 125
<211> 562
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(562)
<223> n = A,T,C or G

```

```

<400> 125
gtcgacgctc ctaacaaaga agatatcttg aaaatttcag aggatgagcg catggagctc 60

```

```

agtaagagct ttcgagtata ctgtattatc cttgtaaaa ccaaagatgt gagtctttgg 120
gctgcagtaa aggagacttg gaccaaacac tgtgacaaag cagagttctt cagttctgaa 180
aatgtttaaag tgtttgagtc aattaatatg gacacaaatg acatgtgggt aatgatgaga 240
aaagcttaca aatacgctt tgataagtat agagaccaat acaactgggt cttccttgca 300
cgccccacta cgtttgctat cattgaaaac ctaaagtatt ttttgtaaa aaaggatcca 360
tcacagcctt tctatctagg ccacactata aaatctggag accttgaata tgtgggtatg 420
gaaggaggaa ttgtcttaag tgtagaatca atgaaaagac ttaacagcct tctcaatata 480
ccagaaaagt gtcctgaaca gggagggatg atttgggaaga tatctgaaga taaacagcta 540
gcagnttgcc tgaaatatgc tg 562

```

<210> 126

<211> 131

<212> DNA

<213> Homo sapien

<400> 126

```

cccctcgccc gtcacgcacc gcacgttcgt ggggaacctg gcgctaaacc attcgtagac 60
gacctgcttc tgggtcgggg tttcgtagct agcagagcag ctccctcgct gcgatctatt 120
gaaaggtcga c 131

```

<210> 127

<211> 512

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(512)

<223> n = A,T,C or G

<400> 127

```

gtcgcagtcg ggcttcggag cgggagtggt cgttggtgcc gcgactaaaa agagaattaa 60
atatgggtga tgttgagaaa ggcaagaaga tttttattat gaagtgttcc cagtgccaca 120
ccgttgaaaa gggaggcaag cacaagactg ggccaaatct ccatgggtctc tttgggcgga 180
agacaggtca ggccctgga tactcttaca cagccgcaa taagaacaaa ggcatcatct 240
ggggagagga tacactgatg gagtatttgg agaatcccaa gaagtacatc cctggaacaa 300
aaatgatctt tgtcggcatt aagaagaagg aagaaagggc agacttaata gcttatctca 360
aaaaagctac taatgagtaa taattggcca ctgccttatt tattacaaaa cagaaatgtc 420
tcatgacttt tttatgtgta ccatccttta atagatctca tacaccagan ttcagatca 480
tgaatgactg acagaatatt ttgttgggca gt 512

```

<210> 128

<211> 483

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(483)

<223> n = A,T,C or G

<400> 128

```

gtcgcagttt ttgtgatact gacacatccc ccctttcaga acaccctctg cccttggatt 60
ctgtgcacag gaagctagtt gctcccctga atacactctt tcttccttgt aatacagcct 120
ctgattttga gcccaagaat aaagactaca gttctcagac tccttcgcaa ataaattttg 180
tgactaaact ctagtcaaca gtaagtgtca tgtagcagct cctgggaatc tcctttaaaa 240
agagagcttg tttataccta ttgtcatctc tgttcttctg tgccccttct tccattttgc 300
tgccctggaaa gcagatgtga tggctggaat tccagtcacc attttggacc atgaggacaa 360

```

caccctanag	atgtggagtg	gctaaaagaa	gcctgtgttc	ctgagaactt	anaggaccan	420
gacctctatt	ccaggcttgn	acacctanat	ttanactatt	atatgaggaa	gcaatcaact	480
tct						483

&lt;210&gt; 129

&lt;211&gt; 326

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 129

gtcgaccttt	tatctgtcta	tccatccatc	atcatttgaa	ggcctaatat	atgccaaagta	60
ctcacatggg	atgcattgag	acataaaaaa	gactgtctat	aacctcaata	agtattaaaa	120
atcccattat	taccataaag	gttcattcta	tttcattttt	agggaataaa	attacatgtc	180
tatgaaattt	caattttaag	cactattggt	tttcatgacc	ataattttat	tttaaaaaata	240
aattaaaggt	taatttatatg	catgtatgta	tttctaataa	ttaaaaatgt	gttcaatccc	300
tgaaaaaaa	aaaaaaaaaa	aaaaaa				326

&lt;210&gt; 130

&lt;211&gt; 276

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(276)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 130

gtcgacggac	accagctgcg	gaanttgcgg	ctttggcaga	ttgaaatcat	ggcaggtcca	60
gaaagtgatg	cgcaatacca	gttcactggg	attaaaaaat	atttcaactc	ttatactctc	120
acaggtagaa	tgaactgtgt	actggccaca	tatggaagca	ttgcattgat	tgtcttatat	180
ttcaagttaa	gggtccaaaa	aactccagct	gtgaaagcaa	cataaatgga	ttttaaaactg	240
tctacgggtc	ttaacctcat	ctgttaagtt	cccatg			276

&lt;210&gt; 131

&lt;211&gt; 482

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(482)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 131

cctttttttt	ttttttttta	attttaaggt	tattttttatt	tacaactttt	gaaaaatgta	60
catttttttt	tacatggggt	acttgtgcaa	agttagattt	ggaagtgata	aatgcataaa	120
aggngacaat	agaacattan	acaaaacatt	tacaagcctt	gtcccatact	gctacttaaa	180
gttactatat	atctaaaagt	ataaatatcc	aaaaaaagat	cgcanacatt	ggctttaagg	240
ttctcanatg	ctgaaaggga	anaaattaaa	gcattgcagca	ataactcagg	atttgagtgg	300
aaaatagttt	gccacanata	tgctatgctc	ccttccttga	attcattaaa	actctaaaaa	360
aaagatggac	aattgagttt	attcacttag	ggcagcactg	atcctttaaa	aagattaaag	420
gagctccaac	tttccctagc	tnaaaaactc	acnatngttt	ccattcctct	gctcccacac	480
ct						482

&lt;210&gt; 132

&lt;211&gt; 428

&lt;212&gt; DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(428)

<223> n = A,T,C or G

<400> 132

cctttttttt	tttttttgtc	taaaaggcaa	aaaactacaa	acagcccaag	tcctgagctc	60
cccaagacct	ggatcctcca	ctgtccccct	gaaacccggc	aggaggcggg	atggggagca	120
caanagggtg	gttcttaaaa	aagtcacccc	tggatgggaa	agctcttcat	cttctgccgc	180
cttcctntgc	ctcccgtgc	tgccgaggag	agagatggan	aggaccgggg	ctatgccggc	240
aaactcaact	tcttccccct	taggactttg	gngatataga	ggtanaanaa	atcgcagtan	300
aggactgtct	ggaccaggcc	tgccacaatg	gcnatgaggt	cgaagaancc	ctcgaaangg	360
taagcgccan	anccagttga	anagatanag	cgtggcggta	aacgcctagc	gcaaacaagt	420
agnngctg						428

<210> 133

<211> 537

<212> DNA

<213> Homo sapien

<400> 133

gtcgacccca	aaccactcc	accttactac	cagacaacct	tagccaaacc	atttacccaa	60
ataaagtata	ggcgatagaa	attgaaacct	ggcgcaatag	atatagtacc	gcaagggaaa	120
gatgaaaaat	tataaccaag	cataatatag	caaggactaa	ccctataacc	ttctgcataa	180
tgaattaact	agaaataact	ttgcaaggag	agccaaagct	aagacccccg	aaaccagacg	240
agctaccta	gaacagctaa	aagagcacac	ccgtctatgt	agcaaaatag	tggaagatt	300
tataggtaga	ggcgacaaac	ctaccgagcc	tggtgatagc	tggttgtcca	agatagaatc	360
ttagttcaac	tttaaatgtg	cccacagaac	cctctaaatc	cccttgtaaa	tttaactgtt	420
agtccaaaga	ggaacagctc	tttggacact	aggaaaaaac	cttgtagaga	gagtaaaaaa	480
tttaacaccc	atagtaggcc	taaaagcagc	caccaattaa	gaaagcgttc	aagctca	537

<210> 134

<211> 535

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(535)

<223> n = A,T,C or G

<400> 134

gtcgactcct	ctcacatggt	ggcttttagga	agatccttgg	ccaggagggt	gatgccagct	60
atcttgcttc	tgaaatatct	acctgggatg	gagtgatagt	aacaccttca	gaaaaggctt	120
atgagaagcc	accagagaag	aagggaaggag	aggagaaga	ggagaataca	gaagaaccac	180
ctcaaggaga	ggaagaagaa	agcatggaaa	ctcaggagtg	acattccctt	cactcctttt	240
cctacccaag	ggggaagact	ggagcctaag	ctgcctgcta	ctgggcttta	catggtgaca	300
gacatttcog	tgggataggg	aagatagcag	gaagaaaagt	aaactccata	gaagtgtcat	360
tccactgggt	tttgatattg	gcttagctgc	cagtctccca	tttgtgacct	atgccatcca	420
ttctataatgg	aggataccaa	catttcttcc	taatttctta	taatctccaa	ctcctgaaaa	480
accctctct	caactaatac	tttgctgttg	aaatgttgng	aaatgttaag	tgtct	535

<210> 135

<211> 114

<212> DNA

<213> Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(114)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 135

gtcgcacctca	gcgtcattca	gaannnggaa	aagaatcaat	gtaactcaag	aaaggatgaa	60
aatacccttt	cttcccatcc	acgtgtttcc	atctcaatcc	tcacagggtc	ctgg	114

&lt;210&gt; 136

&lt;211&gt; 354

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 136

agaagcgaga	tgacgaagg	aacgtcatcg	tttgaaagc	gtcgcaataa	gacgcacacg	60
ttgtgccgcc	gctgtggctc	taaggcctac	caccttcaga	agtcgacctg	tgccaaatgt	120
ggctaccctg	ccaagcgcaa	gagaaagtat	aactggagtg	ccaaggctaa	aagacgaaat	180
accaccggaa	ctggctgaat	gaggcaccta	aaaattgtat	accgcagatt	caggcatgga	240
ttccgtgaag	gaacaacacc	taaacccaag	agggcagctg	ttgcagcatc	cagttcatct	300
taagaatgtc	aacgattagt	catgcaataa	atgttctggt	tttaaaaaat	aaaa	354

&lt;210&gt; 137

&lt;211&gt; 347

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(347)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 137

gtcgacggcg	agattacgag	gcgaggctcg	cgcgcccggc	cccggccctg	ccccagtg	60
ccacccggtc	ggcccggcac	agccatgac	aaggcgatcc	taatcttcaa	caaccacggg	120
aagccgcgcc	tctccaagtt	ctaccagccc	tacagtgaag	atacacaaca	gcaaatcatc	180
agggagactt	tccatttgg	atctaagaga	gatgaaaatg	tttgtaattt	cctagaagga	240
ggattattaa	ttggaggatc	tgacaacaaa	ctgatttata	gacattatgc	aacgttatat	300
tttgtcttct	gtgnnnggatt	cttnanaaag	tgaacttggc	atttttag		347

&lt;210&gt; 138

&lt;211&gt; 434

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(434)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 138

cctttttttt	tttttttgg	taaatgactt	actgtgtaat	tttatttcat	attacacaaa	60
tgtaaatcaa	atgctgagta	gacatgcaga	tgacaagcag	tatatgacaa	actctgaana	120
aatagttaca	tgtagagttt	ctcanatttt	tagtgtatct	aanaattaac	tgaagagttt	180
gttaagaatg	caggcttaaa	ggccaatcca	cagattataa	tttcatacaa	acaggatgga	240
gcctaanaac	ctgtaaatta	ttaaacaact	gattaaaaat	agagagggtt	ctatgaagtt	300
aggnntgtcc	ttatttctta	tttgaactgg	acaagtagaa	ggataatagg	taggaccaag	360



tgagcattat cagaatcaaa gtagaggcaa taacaagcca aggtgtttta ncctanctaa	420
agaagctcgt cgac	434

<210> 139  
 <211> 553  
 <212> DNA  
 <213> Homo sapien

<400> 139	
gtcgacctga ctataacagt gcctactatg ttaacattag atgaacaagt gaattagagg	60
atttttaaat gtgtatccat cagtgtatgg acacactccc tctaacttct tcaaaaaaca	120
aaaattcctg gtagagctaa gtggttttta gaagtttggg tttggtaact gatttctacg	180
agataattga acacttttta aaatagttga tcattatgtc aaacagccct caacagtaaa	240
cttaaatagg gtagaattat agtaagctgg aagagaaaaa gttcccaaag agcattagtc	300
cctttctggc acottattac agatgaataa attgagactc acagaaatta aatgacttag	360
ccccagttat ccaactaact ccttaatgtg aggccatgat taggaatagg cttctagtat	420
tcagtcocat attattttga ctgtgtaata ccacgtgcc aattgatttt aaagtcaa	480
ctcggttga actgtatggg gaaaaaaaaa atctccagct ggctctgctg aatccccaga	540
ggggccctcc act	553

<210> 140  
 <211> 450  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(450)  
 <223> n = A,T,C or G

<400> 140	
gtcgacgccc gtgagttggg tgccggtgga gtcgtgttgg tcctcagaat ccccgcgtag	60
ccgctgcctc ctccctacct cgccatgttt cttaccgggt ctgagtacga caggggcgtg	120
aatacttttt ctcccgaagg aagattatth caagtggaa atgccattga ggctatcaag	180
cttggttcta cagccattgg gatccagaca tcagagggtg tgtgcctagc tgtggagaag	240
agaattactt cccactgat ggagcccagc agcattgaga aaattgtaga gattgatgct	300
cacatagggt gtgccatgag tgggctaatt gctgatgcta agactttaat tgataaagcc	360
agagtggaga cacagaacca ctggttcacc tacaatgaga caatgaacag nggagagtgt	420
gacccaagct gngtccaatc tgnctttgca	450

<210> 141  
 <211> 140  
 <212> DNA  
 <213> Homo sapien

<400> 141	
acacaccct ccctcacaca gggctcgacc gccgctggca gttccagggc taaggatttc	60
ctgcacttac ttgtggagaa ggagttcata gctgggctcc tggaggggag atagagcttc	120
tccttcgttc ccgggtcgac	140

<210> 142  
 <211> 591  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(591)

<223> n = A,T,C or G

<400> 142

gtcgcacctgg	acttgacgtg	taaacagaga	cgctgcacaa	tgcttggtga	cggtgtaggc	60
cgctgcaggc	caccatgaac	cggttccgg	atgactacga	cccctacgg	gttgaagagc	120
ctagcgacga	ggagccggct	ttgagcagct	ctgaggatga	agtggatgtg	cttttacatg	180
gaactcctga	ccaaaaacga	aaactcatca	gagaatgtct	taccggagaa	agtgaatcat	240
ctagtgaaga	tgaatttgaa	aaggagatgg	aagctgaatt	aaattctacc	atgaaaacaa	300
tggaggacaa	gttatcctct	ctgggaactg	gatcttcctc	aggaaatgga	aaagttgcaa	360
cagctccgac	aaggtactac	gatgatata	atgttgattc	tgattccgag	gatgaagaca	420
gagcagtaca	ggtgaccaag	aaaaaaaaa	agaaacaaca	caagattcca	acaaatgacg	480
aattactgta	tgatcctgaa	aaagataaca	gagatcaggc	ctgggttgat	gcacagngaa	540
aggggttacc	atggtttggg	ancacaggag	atcacgtcaa	caacagcctg	t	591

<210> 143

<211> 538

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(538)

<223> n = A,T,C or G

<400> 143

gtcgacaaat	aagaagacac	cttcagcatc	ttaaactaga	ataaataaaa	gaagggtggc	60
ctcctagaat	ttaagtcagg	agggaggtgg	tgggcaatgg	atgacaagct	ctactttgaa	120
gagggtgaat	ttcagctgac	cactactaaa	gcagtacaag	cttttccttt	cagcaagtgt	180
cttcccagaa	atgtgatagc	aattttttagg	aagaatttgg	caaacataat	gttttagcaga	240
tttgacaaca	atgtcataag	ctcaaatttt	tttttttttt	tttttnggca	gcacactcag	300
ccctccaagg	ggaagtggat	tatttttctt	gcaagtgcac	tancanggga	ggtattaagg	360
acagcaacat	tccttcctgt	ataaaaaaat	aaataaataa	aagaagaaag	gattattgag	420
gccctctctg	ctgnatgtaa	tgtacttcan	gatgttggtg	naaaagatat	caacctanaa	480
taagnttcac	aanaatacat	ttggtttcac	ngaaagttta	aagtcaatct	ggacattc	538

<210> 144

<211> 401

<212> DNA

<213> Homo sapien

<400> 144

gtcgacctgt	tccctttttg	ggcctgtctc	cccatgtata	tgttgagggg	ttggacttca	60
gggcctgtga	gaggccttcc	aacttagact	ttctcccag	gagcataaat	tcagtgaatc	120
tacgtgactc	tcagtgatgg	catcattgcc	taatattccac	ccagcttctg	cttgaaaact	180
tccagagact	ggttcacatg	ggggtataaa	agcccaggcc	ccttgcccca	acttgggaca	240
actatgaaga	gtttccagct	ccacagctcc	ctgaggggct	ggccgaggcc	tttgtggggt	300
ttgcctcaca	acccaattta	tccctctggc	caattctgct	tcaatcactc	cctgccagggt	360
gttgaccttg	aatgtactcc	cccaataaac	ctcctgcaag	c		401

<210> 145

<211> 367

<212> DNA

<213> Homo sapien

<400> 145

cctttttttt	tttttttttag	ttagaaatta	caagtttatt	tttatatttt	gaaaaaggca	60
taatagaaaa	caaaaaataa	caaccaggca	tatcaatatt	tgtgacatac	acatacacac	120
aaaaatgaat	ataggaaata	acacgaagaa	aaagcatagt	atgttttgaa	accaacgtgg	180

ggcatgaaca gatttttggat gaaatacaac taaaggtttt aagtgtctat gtaatgttcg	240
agatattacg atcactctta tcctactagc aaaaattagc aaactaggct ttaaaacatg	300
attcctgttg ttttagcagg atttattttg gtaatgatcc tgcttcctta taaacaacta	360
cgtcgac	367

<210> 146  
 <211> 395  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(395)  
 <223> n = A,T,C or G

<400> 146	
gtcgacaaga aagccccctt aatgttttta actgatgata tttttttaag cttaccaata	60
taagtatttt taaaggttct atttttcaaa gtcataacaa tgattgttct tgttttctct	120
catagaatag actgccatcg gataaagagt ggtccctagc ttctattttt ccaagtaaat	180
aagtagaaca tgttcttggg attataccat taaatgttaa ttttcttgaa gaagaaagat	240
tgttgtctgc caagatttta tgttagcgct cggattgagg cagaaaacgg aagcaccagg	300
tttaacactg ggatgacttg ggttggttgc ctggagggtt gaagngggcc ttccccgct	360
tttgaggggg aaaactgact gntttgaaca catat	395

<210> 147  
 <211> 455  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(455)  
 <223> n = A,T,C or G

<400> 147	
gtcgactaaa aactggaacg gtgaagggtga cagcagtcgg ttggagcgag catcccccaa	60
agttcacaaat gtggccgagg actttgattg cacattgttg tttttttaat agtcattcca	120
aatatgagat gcgttggttac aggaagtccc ttgccatcct aaaagccacc ccacttctct	180
ctaaggagaa tggcccagtc ctctcccaag tccacacagg ggagggtgata gcattgcttt	240
cgtgtaaatt atgtaatgca aaattttttt aatcttcgcc ttaatacttt tttattttgt	300
tttattttga atgatgagcc ttctgtgccc cccttcccc tttttgtcc cccaacttga	360
gatgtatgaa ggcttttggt ctccctggga gtgggtggn gcagccaggg cttacctgta	420
cactggactt gagaccagt gaaataaaag tgcac	455

<210> 148  
 <211> 518  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(518)  
 <223> n = A,T,C or G

<400> 148	
gtcgacctca cgccttcgcc gtagcatctt tcgcagcgga ccgaagagaa gaaaagtagg	60
ccagagccga actctcttcc tgccaagatg tctattggtg tgccgattaa agtactgcat	120
gaggccgagg gccacattgt gacatgtgag acgaacaccg gtgagggtata tcgggggaag	180

```

ctcattgaag cagaggacaa catgaactgc cagatgtcca acatcacagt cacatacaga 240
gatggccgag tggcacagct ggagcaggta tacatccgtg gcagcaaaat ccgctttctg 300
atthttgctg acatgctgaa gaacgcaccc atgttaaaga gcatgaaaaa taaaaaccaa 360
ggctcagggg ctggccgagg aaaagctgct attctcaagg cccaagtggc cgcaagagga 420
agaggacgtg gaatgggacg tggaaacatc tttcaaaagc gaagggataa ttttctaagt 480
tgaacagaac tttgtccttt tttctttcan gttatctg 518

```

&lt;210&gt; 149

&lt;211&gt; 442

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(442)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 149

```

cctttttttt ttttttttct tttcataaaa tttttacttt atgaattaaa tacattgaga 60
aacagnaaaa atatatattac agtcatttga agngggcact actaacatat ttaatttaaa 120
aaaatctttg ctgtttcttt gcctgtttct ttcaaagaga attttaaata tgacttttagc 180
ttttaaaaaa tacaatangg aaataattac attcttaata tgaaaacatt ttacaacgta 240
tcaccatggt caattaattc tgaatatcac ttaaaagtgt atgttaaaat gtaaagngaa 300
tatttccttt cttgttanaa aatcaaaaag attatctcat taaaaacacc ttngnnccta 360
agacttatga tctgaanatg nccttttgaa aagnatcttc catgggtaca actaaaaaan 420
accggtaac acttgtagac gg

```

&lt;210&gt; 150

&lt;211&gt; 341

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(341)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 150

```

gttnacctat tattacocca tgatacagtt tagaaaaaa attcatgcac taagtaaatg 60
gaccaaatcg taagtcaactg ccttttgctc cagagttggc tgctttgatt actcctacac 120
ttaactagtc aacttttaaag aaaaaaattt tttttctgt gaaggaaatt aagtgcctat 180
tttcanagag ctaaaagcaa tcaaggcatc tactgtgtta ttttctatc catgtngact 240
catgtttaag gttgactagg aagacataat cattggctgc taataacaaa tngattttct 300
ttnataaaaa atttaaaaga gtntntaatg ctttatttta t 341

```

&lt;210&gt; 151

&lt;211&gt; 459

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(459)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 151

```

gtcgaccagg tcttgaccct ggtcaacaag agaataggcc tttaccgtca ctttgacgag 60
accgtcaata ggtacaagca atccggggac atctccaccc tcaacagtgg caagaagagc 120

```

```

ctggagactg aacacaaggc cttgaccagt gagattgcac tgctgcagtc caggctgaag 180
acagagggtc ctgatctgtg cgacagagtg agcgaaatgc agaagctgga tgcacaggtc 240
aaggagctgg tgctgaagtc ggcggtggag gctgagcgcc tgggtgctgg caagctcaag 300
aaagacacgt acattgagaa tgagaagctc atctcaggaa agcgccagga gctggtcacc 360
aagatcgacc acatcctgga tgccctgtag cccctgcccg catcctncag ggggccagg 420
gtgcctgcac tttgctgtgg gnangcagat tgggtggtgta 459

```

```

<210> 152
<211> 242
<212> DNA
<213> Homo sapien

```

```

<400> 152
gtcgacccaa ggtcacagga gcattgcgtc gctgatgggg ttgaagtttg gtttggttct 60
tgtttcagcc caatatgtag agaacatttg aaacagtctg cacctttgat acggtattgc 120
atttccaaag ccaccaatcc attttgtgga ttttatgtgt ctgtggctta ataatacatag 180
taacaacaat aatacctttt tctccatttt gcttgcagga aacatacctt aagttttttt 240
tg 242

```

```

<210> 153
<211> 57
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(57)
<223> n = A,T,C or G

```

```

<400> 153
cctttttttt tttttttttt ttccacatca ctcaggtttt atngaattta taaaatt 57

```

```

<210> 154
<211> 437
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(437)
<223> n = A,T,C or G

```

```

<400> 154
cctttttttt ttttttttgt aatncagttt taatttattt tcatcacttt ttcttcataa 60
tccagatatt ttaaaatgca aagaaaatta actttcaatg atatgttcag ggactggcac 120
taaaaaaaaa tttcagactg caaatgagtt atacaaatga aaatatcaaa tggagatcca 180
gttatcaaaa tgaaagcact caacatatta aaagttcaca agtatttgta ttgagcacat 240
tacaaaagtc agcttgctaa ctgttgtgat tttaaagaac tattgcanaa gtctgaanaa 300
aatanattta ttagttaact tataaagaga ttaaagaggg tgaaacaagt nttaaaaana 360
aatttgngcc tttattanaa tgtaggcgt cnacgcgccc gctcnngtct anagggcccc 420
tttaaaccgg ctgatca 437

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<210> 155
<211> 518
<212> DNA
<213> Homo sapien

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<400> 155

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gtcgacgtga	gccacagtca	cgccactgca	ttctatcctg	ggcaacagat	ggagacottg	60
tctcaaaaaa	aaaaaattcc	tgacatcgct	atgtattccc	aactttatca	tttgtctgcc	120
tgtttagttt	tgacttatgt	tttttttttt	tccccctgt	ggacatgtag	ttgacggaaa	180
tcgtgaagga	actttaatat	tttattttaa	tttcccaaaa	ctaatacatgc	cttatgtgac	240
taatottcag	tgataatatt	tcactctactg	atataatttc	ttgaggtgtg	taattttcag	300
tataacctaa	tcatttggtg	taaaaaagag	agaggttttt	gatatatgaa	tgctgttctt	360
gtaaaaatca	atcttgacac	tttattttta	actttttatt	ggtaatgaca	gtgggttttg	420
tacatcatga	ttttcaattt	aggatatctg	tctaatttgt	tttttcagag	taactatatt	480
ggaattcaat	aaaaatatcc	aaaatttttc	ttaaaaaa			518

&lt;210&gt; 156

&lt;211&gt; 600

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 156

gtcgacgttt	atttaagtcc	atgtttcact	gtttgcactt	tgcaattgaa	aatgggttta	60
ttcgctgatg	taaacgggtc	gagtgagaa	ttaatgcagt	aagtatgaca	acacatacac	120
acttgccctt	ccccatctcc	agaagagggg	agcagagtcc	gagcttatct	aaatatgaat	180
gtggccacaa	agctgtggaa	ggtgacaaa	cttaaacacc	tttgccctgg	ctctgcattg	240
tcacctagag	agcaagaggt	ctatagaaac	atcatgtcac	atgaaacgat	tctctgcttt	300
ttggtttctg	acttgaagtc	cctaaactgc	aaaatctaag	agttgggtgg	ttattaaaaa	360
gcttttaaaa	agtttaactgt	ggcaccaatt	ctaataatga	ccaacttggt	actgtttttt	420
tttggtttgt	tttggttttg	tgtgtgtgtg	tgtgtggcac	tgaggaaaagt	ggaaacaaac	480
atgtattgaa	atacatattg	gaaataaaaa	tggtttgagc	gtcagtgata	ttctcccaga	540
atgtacttat	cttacctcgc	atgtactgta	gtcactcagt	atttgtatat	gttgctagaa	600

&lt;210&gt; 157

&lt;211&gt; 542

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 157

gtcgacggct	gggaagtcag	ttcgttctct	cctctcctct	cttcttgttt	gaacatgggtg	60
cggactaaag	cagacagtgt	tccaggcact	tacagaaaag	tggtggctgc	tcgagcccc	120
agaaaggtgc	ttggttcttc	cacctctgcc	actaatcga	catcagtttc	atcgaggaaa	180
gctgaaaata	aatatgcagg	agggaacccc	gtttgcgtgc	gcccactcc	caagtggcaa	240
aaaggaattg	gagaattctt	taggtttgtc	cctaaagatt	ctgaaaaaga	gaatcagatt	300
cctgaagagg	cagggaagcag	tggcttagga	aaagcaaaga	gaaaagcatg	tcctttgcaa	360
cctgatcaca	caaatgatga	aaaagaatag	aactttctca	ttcatctttg	aataacgtct	420
ccttggtttac	cctgggtattc	tagaatgtaa	atttacataa	atgtgtttgt	tccaattagc	480
tttggtgaac	aggcatttaa	ttaaaaaatt	taggttttaa	tttagatggt	caaaagtagt	540
tg						542

&lt;210&gt; 158

&lt;211&gt; 526

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 158

cacctcaggc	tgtggctctt	tggtgttctt	cctaattgcag	aagaagttgc	ccagcagcaa	60
aatcagggag	gaggtgagca	cctcgccccc	cgccaggatg	aacacgtaca	tgtagacgtg	120
ggctgcaccc	aggagtttgc	ctcccgaaag	gggcccgcag	agcacggcca	ccgcctccat	180
cagcagcacc	aggccaatgg	cactggagaa	cttgtaggag	atgccaaaga	agatgcagaa	240
gaccacgagg	ccgccgtagt	cgcccgcctg	agagcccgc	aggtccgcga	ggcgttgaa	300
gaacatggag	aagctgaaga	ggtagacgga	gtagggccgc	accttcccaa	gccccgccac	360
gaagcccgcg	gccggccgcg	cgaagatgtc	aatgaagccc	aggatggtga	gcaggaaggc	420
ggccttggtg	tcgggcacgc	ccaggtcctt	ggcgtagctc	accacgaaca	cgggcgggac	480

gaagagcccc agcaccatga ccgaggcggc cacggcgtaa agcaca 526

<210> 159  
<211> 306  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(306)  
<223> n = A,T,C or G

<400> 159  
cctttttttt tttttttttt ttttttngga tgtatnngaa attttttcta tatanatcat 60  
gtgtgacttc cataaagaaa aataaacacc tatncacagt ttacctaaata tgtgtaatgt 120  
taatgaaaag aatcaaagaa agatgttcgt tcattaactc tctaaatnaa attgtttttc 180  
cattttttacc aacttgatac cttaatacaag ncactcttgt tcttctttaa gtgcaaatga 240  
attttttgtt tgggttgggg gacaacacaa aatacaaacc tgggttggat tcaactgaaag 300  
gcccaa 306

<210> 160  
<211> 528  
<212> DNA  
<213> Homo sapien

<400> 160  
ctgaagagcg gcttgctctt cacatcctca ggactcaggg gctgggtccct gagcacgtgg 60  
aaacaaggac tttgcacagc accttccagc ccaacatttc ccagggaana cttcagatgt 120  
gggtggatgt tttccccaag agtttggggc caccaggccc tcctttcaac atcacacccc 180  
ggaaagccaa gaaatactac ctgcgtgtga tcatctggaa caccaaggac gttatcttgg 240  
acgagaaaag catcacagga gaggaatga gtgacatcta cgtcaaaggc tggattcctg 300  
gcaatgaaga aaacaaacag aaaacagatg tccattacag atctttggat ggtgaaggga 360  
attttaactg gcgatttgtt ttcccgtttg actaccttcc agcogaacaa ctctgtatcg 420  
ttgcgaaaaa agagcatttc tggagtattg accaaacgga atttcgaatc ccaccaggc 480  
tgatcattca gatatgggac aatgacaagt tttctctgga tgactact 528

<210> 161  
<211> 527  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(527)  
<223> n = A,T,C or G

<400> 161  
cctttttttt ttttttttgg tcttacaact ctattgtaaa ctatactaga ctatagaggg 60  
acttctacat ctttcaagat gtgtttaata aaggctctgtt tataataact tttgaggcat 120  
gaatctagca aatagtactt tatacaatgt cccttgcgat taccactca taaatattaa 180  
gtgtttttca gtgacttatg tttggatgtg gtatgtctga tcagggccat gtgctgatgt 240  
cctggagagc aaaatcaatc caaagngng ctgctatttg tgacagaaca tgtttattta 300  
ctcagccccc gagacaaaag gaaaattgat atgggggagc gggaaatagg agaactatta 360  
aatgtagtga agaaatttca caggtctaaa ggaactatta aaaggaagga taaagtagat 420  
tctatactat aaaacagaat cctacctctg ataaaagaca aatcagcctg aatttttgaa 480  
taatcaatag gattcaaaat gactattttc aattgcaatc tcattct 527

<210> 162

<211> 77  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(77)  
<223> n = A,T,C or G

<400> 162  
cctttttttt tttttttttt ttnntttttt tttttttttt ttttagggaa anaaatctgg 60  
gttcctttta tttttga 77

<210> 163  
<211> 645  
<212> DNA  
<213> Homo sapien

<400> 163  
gtcgacaaac aatgaatagt ttttcattgt accatgaaat atccagaaca tacttatatg 60  
taaagtatta tttatttgaa tctacaaaaa acaacaaata atttttaaat ataaggattt 120  
tcctagatat tgcacgggag aatatacaaa tagcaaaatt gaggccaaagg gccaaagagaa 180  
tatccgaact ttaatttcag gaattgaatg ggtttgctag aatgtgatat ttgaagcatc 240  
acataaaaaat gatgggacaa taaattttgc cataaagtca aatttagctg gaaatcctgg 300  
atttttttct gttaaactctg gcaaccctag tctgctagcc aggatccaca agtccttggt 360  
ccactgtgcc ttggttttct ctttatttct aagtggaaaa agtattagcc accatcttac 420  
ctcacagtga tgtgttgagg acatgtggaa gcactttaag ttttttcac ataacataaa 480  
ttattttcaa gtgtaactta ttaacctatt tattatttat gtatttattt aagcatcaaa 540  
tatttgtgca agaatttgga aaaatagaag atgaatcatt gattgaatag ttataaagat 600  
gttatagtaa atttatttta ttttagatat taaatgatgt tttat 645

<210> 164  
<211> 434  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(434)  
<223> n = A,T,C or G

<400> 164  
gtcgaccgga cgcggcggca ttaaaccggt gcaggcgtag cagagtggtc gttgtctttc 60  
taggtctcag ccggtcgtcg cgacgttcgc ccgctcgctc tgaggctcct gaagccgaaa 120  
ccagctagac tttcctcctt ccgcctgcc tgtagcggcg ttggtgccac tccgccacca 180  
tggtcgaggc gcgcctggtc cagggtcca tcctcaagaa ggtgttgag gactcaagg 240  
acctcatcaa cgaggcctgc tgggatatta gctccagcgg tgtaaacctg cagagcatgg 300  
actcgtccca cgtctctttg gtgcagctca ccctgcggtc tgagggttn gacacctacc 360  
gctgcgaccg caacctggcc atgggcgtga acctcaccag tatgtncaaa atactaaaat 420  
gcgccngcaa tgaa 434

<210> 165  
<211> 388  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature



&lt;222&gt; (1)...(388)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 165

gtcgaccatt	catatatata	tgcataatata	tgtgaagctc	catatttctg	ttgcttttaa	60
gaagtaaaac	cttcatttta	aataagatga	catgcntaan	ataacaaagc	ttccttgatt	120
tccttttctc	gtgtaattna	atagatttgt	tgactagtgc	ttgggcacat	tataaatcag	180
ngttatttgc	tcttggagcc	attttttaaa	aaaaattttg	gcagtgcagc	gttgaattta	240
tcttgaattt	atcatgtgtg	tgtatttctg	aagcagctac	atagcagaac	attttaagag	300
attctgttag	cccacatgtt	catgttgggt	gctgctgaat	ggtaaatatt	aaataaaatt	360
accagattaa	tcttaaaaaa	aaaaaaaa				388

&lt;210&gt; 166

&lt;211&gt; 443

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(443)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 166

gtcgaccttg	ctttctttaa	aaacaaaaaa	actactgtca	gtattaatac	tgagccagac	60
tgccatctac	agatttcaga	tctatcattt	tattgattct	taagcttgta	ttaaaaacta	120
ggcaatatca	tcatggatac	ataggagaag	acacatttac	aatcattcat	tgggcctttt	180
atctgtctat	ccatccatca	tcatttgaag	gcctaataata	tgccaagtac	tcacatggta	240
tgcatgtgaga	cataaaaaag	actgtctata	acctcaataa	gtattaaaaa	tcccatattt	300
acccataagg	ntcatcttat	ttcattttta	gggaataaaa	ttacatgtct	atgaaatttc	360
aattttaagc	actattgntt	ttcatgacca	taattttattt	ttaaaaataa	attaaagggt	420
aattataaaa	aaaaaaaaaa	aag				443

&lt;210&gt; 167

&lt;211&gt; 608

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(608)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 167

gtcgactgcg	cctctccgaa	cgcaacatga	aggtgctcct	tgccgcccgc	ctcatcgcg	60
ggtccgtcct	cttcctgctg	ctgcccggac	cttctgcggc	cgatgagaag	aagaaggggc	120
ccaaagtcac	cgtaaggtg	tattttgacc	tacgaattgg	agatgaagat	gtaggccggg	180
tgatcttttg	tctcttcgga	aagactgttc	caaaaacagt	ggataatttt	gtggccttag	240
ctacaggaga	gaaaggattt	ggctacaaaa	acagcaaatt	ccatcgtgta	atcaaggact	300
tcatgatcca	gggcgagac	ttcaccagg	gagatggcac	aggaggaaag	agcatctacg	360
gtgagcgctt	ccccgatgag	aacttcaaac	tgaagcacta	cgggcctggc	tggtgagca	420
tggccaacgc	aggcaaagac	accaacggct	cccagttcct	catcacgaca	gtcaagacag	480
cctggctaga	tggcaagcat	gtgggtgttg	gcaaagttct	agagggcatg	gangtggtgc	540
ggaangtgga	gagcaccaag	acagacagcc	gggataaacc	cntgaangat	gtgatcatcg	600
cagactgc						608

&lt;210&gt; 168

&lt;211&gt; 569

&lt;212&gt; DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(569)

<223> n = A,T,C or G

<400> 168

gtcgacgcgg	ncggccggac	agactgacgt	gtgagctgca	tcgcgggagg	cgcattgngg	60
ggatggcgct	ggcgcgggcc	tggaagcaga	tgtcctgggt	ctactaccag	tacctgctgg	120
tcacggcgct	ctacatgctg	gagccctggg	agcggacggt	gttcaattcc	atgctggttt	180
ccattgtggg	gatggcacta	tacacaggat	acgtcttcat	gccccagcac	atcatggcga	240
tattgcacta	ctttgaaatc	gtacaatgac	caagatgcga	ccaggatcag	aggtttcttg	300
gggaagaccc	accctacgaa	gttggaatga	gaccatcaga	tgtgataaga	aactcttcta	360
gatgtcaaca	taaccaacct	tataaagact	aaaattcatg	agtagaacag	gaaaatcatc	420
ctgactcatg	tgttgtgttc	tttattttta	atttttcaaa	gaggctcttg	tatagcagtt	480
ttttgtctat	tttaacattg	taagtcattt	tgttctttga	natcantatt	ttcttaacct	540
ttgtgactgt	ttcaatatta	cccccgnga				569

<210> 169

<211> 216

<212> DNA

<213> Homo sapien

<400> 169

gtcgaccggg	aacccatcta	taaagtaagg	cacactcgta	atggttgaat	tgtgttctgg	60
ttaatttctt	aaaggacttc	acagttgcac	ttatgaaaa	gattttatat	tgaaatgata	120
tttgataaag	aaaaagcatg	tgatttaattg	catattgctt	gagtgttcat	ctgtgaatgt	180
gaaaaataag	ctgttttttt	ttattagata	tttgca			216

<210> 170

<211> 284

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(284)

<223> n = A,T,C or G

<400> 170

cctttttttt	tttttttgaa	atggancttc	tgaatcgaaa	agtttttcac	tttaaatgtt	60
ggatgagtgc	tacaaaaaca	ctnngcatct	tagggcaagt	gtcgctgagc	acctgcttcc	120
ccatattctc	agcannatca	tttcagttct	tagcaatctg	gcaggcaaaa	ggaaagtctg	180
attttgnrng	aattngcatt	ttcctgatta	ccancaaact	antttaagct	taatgggcac	240
ntnntatttc	tattctctga	actgccatt	tttctacat	tcag		284

<210> 171

<211> 541

<212> DNA

<213> Homo sapien

<400> 171

cagacagcac	tgtgttggcg	tacaggtctt	tgccgatgtc	cacgtcacac	ttcatgatgg	60
agttgaaggt	agtttcgtgg	atgccacagg	actccatgcc	caggaaggaa	ggctggaaga	120
gtgcctcagg	gcagcggaac	cgctcattgc	caatgggtgat	gacctggccg	tcaggcagct	180
cgtagctctt	ctccagggag	gagctggaag	cagccgtggc	catctcttgc	tcgaagtcca	240
ggcgagcgta	gcacagcttc	tccttaattg	cacgcaacgt	ttcccgtctg	gccgtggtgg	300

tgaagctgta	gccgcgctcg	gtgaggatct	tcatgaggtg	gtcagtcagg	tcccggccag	360
ccagggtccag	acgcaggatg	gcatggggga	gggcataccc	ctcgtagatg	ggcacagtgt	420
gggtgacccc	gtcaccggag	tccatcacga	tgccagtggg	acggccagag	gcgtacaggg	480
atagcacagc	ctggatagca	acgtacatgg	ctgggggtgt	gaagggtctca	aacatgatct	540
g						541

<210> 172  
 <211> 573  
 <212> DNA  
 <213> Homo sapien

<400> 172						
gtcgactttc	aacaaatect	gaagtctttc	tgtgaagtga	ccagttctga	actttgaaga	60
taaataattg	ctgtaaatcc	cttttgattt	tctttttcca	ggttcatggg	ccttggtaat	120
ttcattcatg	gaaaaaaaac	ttattataat	aacaacaaag	atttgatat	ttttgacttt	180
atatttcctg	agctctcctg	actttgtgaa	aaagggtgga	tgaaaatgca	ttccgaatct	240
gtgaaggccc	aaaacagaat	ttaggggtgg	gtgaaagcac	ttgtgcttta	gctttttcat	300
attaaatata	tattatattt	aaacattcat	ggcatagatg	atgatttaca	gacaatttaa	360
aagttcaagt	ctgtactgtt	acagtttgag	aattgtagat	aacatcatac	ataagtcatt	420
tagtaacagc	ctttgtgaaa	tgaacttggt	tactattgga	gataaccaca	cttaataaag	480
aagagacagt	gaaagtacca	tcataattaa	cctaaatttt	tgttatagca	gagttttctg	540
tttaaaaaaa	aataaaatca	tctgaaaagc	aaa			573

<210> 173  
 <211> 545  
 <212> DNA  
 <213> Homo sapien

<400> 173						
gtcgacctgg	gctggacgtg	gttttgtctg	ctgcgccgcg	tcttcgcgct	ctcgtttcat	60
tttctgcagc	gcgccagcag	gatggcccac	aagcagatct	actactcgga	caagtacttc	120
gacgaacact	acgagtaccg	gcatgttatg	ttaccagag	aactttccaa	acaagtacct	180
aaaactcatc	tgatgtctga	agaggagtgg	aggagacttg	gtgtccaaca	gagtctaggc	240
tgggttcatt	acatgattca	tgagccagaa	ccacatatct	ttctctttag	acgacctctt	300
ccaaaagatc	aacaaaaatg	aagtttatct	ggggatcgtc	aaatcttttt	caaatttaat	360
gtatatgtgt	atataaggta	gtattcagtg	aatacttgag	aaatgtacaa	atctttcatc	420
catacctgtg	catgagctgt	attcttcaca	gcaacagagc	tcagttaaat	gcaactgcaa	480
gtagggttact	gtaagatgtt	taagataaaa	gttcttccag	tcagtttttc	tcttaagtgc	540
ctgtt						545

<210> 174  
 <211> 469  
 <212> DNA  
 <213> Homo sapien

<400> 174						
gtcgacaaaag	aatcacagct	ttctctccat	gttttattaa	cacacagaaa	aatactttga	60
aaaatatacc	atcttctcaa	aatgaaatgt	atgatttgct	acaaatggcc	atatggaaaa	120
tatgatacct	gcttatTTTT	gactcagggt	gcattcaatt	tttatactaa	ctgaaaatta	180
catgattgcg	ttttgtttta	aaagtgaaaa	aaagtaataa	ctgcttttag	ccttgtaata	240
ttgaatgcgt	caattggctc	cccttgtaga	atgttgaaatg	gctatcactg	gtgacagatg	300
ttctgtacat	cgcagtaata	ctgcttatat	aattgtgata	atcttccgct	tcttatttgt	360
catttttagt	gatttaaaaa	tcccttgatg	actccctgaa	aaatgactga	tgtttttctt	420
atattaagta	atctctgctg	gtaaagtgtg	agtcttttaa	taatttctt		469

<210> 175  
 <211> 108  
 <212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(108)

<223> n = A,T,C or G

<400> 175

cctttttttt	ttttttttng	aaattnaagt	aacttnatnn	aaattcaaaa	acaatnctta	60
aaactgnntt	tagagtcaag	acccttttgt	attataaaaa	tcacaagt		108

<210> 176

<211> 426

<212> DNA

<213> Homo sapien

<400> 176

gtcgactggt	tagaagtatt	acacagagag	aaggggaaaa	gaaactccat	caatcaagct	60
aaaggcagca	aaggaaaatt	tgaaaagaag	caacgagact	gtttaacaaa	gaacatcaaa	120
taagatgatg	gaactagaag	aaaaacacca	atgtcccttaa	ttatataaaa	acatcaatgt	180
ccttaattat	ataaattttt	aaccctcaat	tgggttaaaa	aatcagattt	gtactaagag	240
atgtatcttt	aaaagcaaaa	gaaagaataa	aaagatcaac	aagtaaaaca	aagtaggagt	300
cagaattaat	attagacaaa	ataaagggtga	aaaatactaa	atgcaagaaa	taatatttta	360
gatgacaaa	atgtatgagc	cataaaaaag	tcatgagttt	ttataaacct	aaaatatagc	420
gtcgac						426

<210> 177

<211> 538

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(538)

<223> n = A,T,C or G

<400> 177

cctttttttt	tttttttttt	tttttttgga	ngnatngaa	attttttcta	tatanatcat	60
gtgtgacttc	cataaagaaa	aataaacacc	tatacacagt	ttaccttaata	tgtgtaatgt	120
taatgaaaag	aatcaaagaa	agatgttcgt	tcattaactc	tntaaatcaa	attgtttttc	180
cattttttacc	aacttgatac	cttaatcaag	tcactottgt	tcttccttaa	gtgcaaatga	240
attttttggt	tgggttgggg	gacaacacaa	aatacaaacc	tgggttggtg	tcactgaaag	300
gccaanaaaa	gggccttant	ctaggaagta	nagngtgana	tgatacaccc	acaggctggn	360
gcattctggn	ccacacaaan	acgtgctgnt	ccccgcccta	ctgntnaaaa	cagntctggt	420
ttgctnanat	gctgctgntg	caacctgcag	gtccatgana	agaacaactc	cctgggttgtt	480
tacancccg	gagtgttttg	ngaatttgca	cctacatttc	ccatgtgata	tggactca	538

<210> 178

<211> 566

<212> DNA

<213> Homo sapien

<400> 178

gtcgacttg	aagcagggtt	atattattata	tacttgcaat	tgaatataag	atacagacat	60
atatatgtgt	tatgtatttc	tagaaatgca	cataacatat	atttgccctat	tgtttaatgt	120
ttttccaga	tatttattac	agaaggcat	ggagggatac	ctacttattc	ttcattatga	180
gaacaattaa	aggcatttat	tagataggaa	attaacagat	catctgcttc	tataacttta	240
ttagctacat	taaataggca	gtgagcaata	atttaaaaac	tcaccattat	ataaaataat	300

aaataacaaa	gtaaaagtta	atgttataaa	aataaactga	tagtaaggaa	aatctaaatg	360
ggcatgatcc	catttttagaa	gaccaaataa	ttaatagggg	tgcatagtta	taatagacaa	420
ttgtctaatt	atttctgtgt	ttttatttag	tgggtagcag	aagttgttca	gaagagcaga	480
aatatgtaga	aaacatctct	aaatttttgg	caatttgaaa	tagcaattct	gaggcacaca	540
gctcatctac	aaaaatcttt	tgacaga				566

&lt;210&gt; 179

&lt;211&gt; 277

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(277)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 179

gncgacggga	aaggaatatt	atggcannaa	gctgagcaag	caattctggt	ggaaaagtcaa	60
acctgtcagt	gctccacacc	agggctgtgg	tcctcccaga	catgcatagg	aatggccaca	120
ggtttacact	gccttcccag	caattataag	cacaccagat	tcaggagagac	tgaccaccaa	180
gggatagtgt	aaaaggacat	tttctcagtt	gggtccatca	gcagtttttc	ttcctgcatt	240
tattgnngaa	aactatngtt	tcattttcttc	ttttata			277

&lt;210&gt; 180

&lt;211&gt; 349

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(349)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 180

cctttttttt	tttttttttt	tttttttttt	tttttttttt	ttagnataag	gaaaagctac	60
aaacctcaag	gntgttttat	ttaaaccaaa	taatntgagc	aagacatatn	tacattaaaa	120
acaaatgaac	acattaaaaat	ttcactatct	tacaatctaa	attctagcaa	catatacaaa	180
tactgagnga	ctacagtaca	tgccngngta	ananaagtag	attntgggan	aatatnactg	240
acnctcaaac	cattttttatt	tccaatatgt	atttcaatac	atgtttgttt	ccactttttcc	300
cagngccaca	cacacncnca	cacaaaaaca	aaacaaaaaca	aaaaaaaaac		349

&lt;210&gt; 181

&lt;211&gt; 435

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(435)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 181

cctttttttt	ttttttttga	cattttacag	tattttattg	agtaagagct	cataaaatat	60
attttttata	tatgcacaag	aaaaaataca	tttgaatgaa	taaaaaataa	aatgacagga	120
ggtgacagaa	tttagtggtt	ataaatgagg	tcataaagaa	ctttaataat	tcanagaana	180
agttcaaagt	gtatttataa	gttgagaccc	tgctttacaa	tattttataa	ttttaaaaaa	240
aggcgtttaa	aggtgatagg	tgacttaata	attttccact	ttcaaaatgg	gtttctagac	300
actgttatga	agctgctatg	tactaataat	actttgcttg	ccaaagtgtt	tgggttttgt	360

tggttggtgt ttggttggtt gtttttggtt catgaacaac agtgtctaga aaccacttt 420  
 caaaatgggg tcgac 435

<210> 182  
 <211> 328  
 <212> DNA  
 <213> Homo sapien

<400> 182  
 gtcgaccatt gtatcttttt cttttctatc cttttacatt tactctttca gaatccttat 60  
 gttttactgt ttccagaaaa cttagttttt aaaatattct gctaactcatt ttccatataa 120  
 gtttacatta aataagtcct ttaaagttaa ttataattaa ataaagttaa ttttcacatg 180  
 tgttttcata tctactgtct cagaactttc tccttgccct atttttccta ttttatcccc 240  
 tttttgcac ctttgagttg actttttatg attttatttt tctctcttta ctagtttgga 300  
 tattatctac ccactaata ttctttca 328

<210> 183  
 <211> 491  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(491)  
 <223> n = A,T,C or G

<400> 183  
 cctttttttt tttttttttt tttttttttt ttacaaacct caagggtggt ttattttaa 60  
 caaataatct gagcaagaca tatatacatt aaaaacaaat gaacacatta aaatttcact 120  
 attttacaat ctaaattcta gcaacatata caaatactga gtgactacag tacatgccga 180  
 ggtaagataa gtacattctg gganaatatc actgacgctc aaaccatttt tatttccaat 240  
 atgtatttca atacatgttt gtttccactt ttcccagngc cacacacaca cacacaaaaa 300  
 caaaacaaaa caaaaaaaa cagtcacaag ttggattaca ttanaattgg ngccacagtt 360  
 gactttaaaa gcattttaat aaccacccaa ctcttanatt ttgcagttta gggacttcaa 420  
 gttcanaacc aaaaagcana gaatcgtttc atgtgacatg atgtttctat agacctcttg 480  
 ctctctaggt c 491

<210> 184  
 <211> 478  
 <212> DNA  
 <213> Homo sapien

<400> 184  
 gtcgacggct gctgttggtt gggggccgct ccgctcctaa ggcaggaaga tgggtggccgc 60  
 aaagaagacg aaaaagtgcg tggagtcgat caactctagg ctccaactcg ttatgaaaag 120  
 tggaagtac gtcctggggt acaagcagac tctgaagatg atcagacaag gcaaagcgaa 180  
 attggtcatt ctgcgtaaca actgcccagc tttgaggaaa tctgaaatag agtactatgc 240  
 tatgttggct aaaactggtg tccatcacta cagtggcaat aatattgaac tgggcacagc 300  
 atgcggaaaa tactacagag tgtgcacact ggctatcatt gatccagtg actctgacat 360  
 cattagaagc atgccagaac agactggtga aaagtaaacc ttttcaccta caaaatttca 420  
 cctgcaaac ttaaacctgc aaaattttcc ttttaataaaa tttgcttggt ttaaaaaa 478

<210> 185  
 <211> 596  
 <212> DNA  
 <213> Homo sapien

<220>

<221> misc\_feature  
 <222> (1)...(596)  
 <223> n = A,T,C or G

<400> 185  
 gtcgacggac gaggagtgcg gcaactgatga gtactgcgct agtcccaccc gcggagggga 60  
 cgcgggcgctg caaatctgtc tcgcctgcag gaagcgccga aaacgctgca tgcgtcacgc 120  
 tatgtgctgc cccgggaatt actgcacaaa tggaatatgt gtgtcttctg atcaaaatca 180  
 tttccgagga gaaattgagg aaaccatcac tgaaagcttt ggtaatgatc atagcacctt 240  
 ggatgggtat tccagaagaa ccaccttgtc ttcaaaaatg tatcacacca aaggacaaga 300  
 aggttctgtt tgtctccggt catcagactg tgcctcagga ttgtgttgct ctagacactt 360  
 ctggtccaag atctgtaaac ctgtcctgaa agaaggctaa gtgtgtacca agcataggag 420  
 aaaaggctct catggactag aaatattcca gcgttggtac tgtggagaag gtctgtcttg 480  
 ccggatacag aaagatcacc atcaagccag taattcttct aggccttcaca cttgncagag 540  
 aactaaacc agctatccaa atgcagtga ctccttttat ataatagatg ctatga 596

<210> 186  
 <211> 314  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(314)  
 <223> n = A,T,C or G

<400> 186  
 gtcgactgcc tatttaaatgt agctaataaa gttatagaag cagatgatct gttaatttcc 60  
 tatctaataa atgcctttaa ttgttctcat aatgaagaat aagtaggtat ccctccatgc 120  
 ccttctgtaa taaatatctg gaaaaaacat taaacaatag gcaaatatat gttatgtgca 180  
 tttctagaaa tacataaac atatatatgt ctgtatctta tattcaattg caagtatata 240  
 ataataaac ctgcttccaa acaacaaaaa aaaaaaaaaa aaaaaaaaaa naaaaaaaaa 300  
 aaaaaaaaaa aaaa 314

<210> 187  
 <211> 331  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(331)  
 <223> n = A,T,C or G

<400> 187  
 cctttttttt tttttttatt cctcagngct tttgatttta attcttttgg catatctaaa 60  
 tgtcagaaag tgaatatata catacagaat tcaaacaccc ttctctaaat ggttattatt 120  
 ggccantcat tnacatcttt attttgaaag tctgaattgn caaatagttc taaagtgcac 180  
 tcttgagct aataaatagc agcatttgtt tataaacct taagaaattc agaccagggc 240  
 tgganaagtc acaataaaaa atcagacatg atctanatag agtcttccct aatcatctaa 300  
 gacaaacact tgtgtgaatt agtttataag g 331

<210> 188  
 <211> 567  
 <212> DNA  
 <213> Homo sapien

<400> 188

```

gtcgacgctg aagaaggaaa agaaatgtgt gaaactcata ggagttcccg ctgacgctga    60
ggccttaagt gaaagaagtg gaaacacccc taactctccc aggttagctg ctgaatcaaa    120
gcttcaaaca gaagttaaag aaggaaaaga aacttcaagc aaattggaaa aagaacttg    180
taagaaatta caccctattc tatatgtgtc ttctaaatct actccagaga cccagtgcc    240
tcaacagtaa agacttgtct ttaataagag tacggtgcc aattgcctcaa aagtactat    300
ggtgcttaag attgtcttga tctgacatat atcaccttct gggttattta ctcatgtgc    360
caggacctgg cattttcatg tgcctttgac caagtgttca gaatttgctt gactctaacc    420
tggagagctt cttaagtgat gccccttcat ggagcttcta tgacagtga taaactatta    480
attgaaggaa aatgttataa ttaatgtatc tatttgctgc attgtatatg gattaaatga    540
taaaaaacaa gtaatctacc ctgagag                                     567

```

```

<210> 189
<211> 130
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(130)
<223> n = A,T,C or G

```

```

<400> 189
cctttttttt tttttttttt tttttttttt tttttttttt tttttatcnc ctaagnanat    60
tttaataataa attttgaaca gttataaaaa anaaanangg cctttgggtc aataacanaa    120
cataacaaaa                                     130

```

```

<210> 190
<211> 426
<212> DNA
<213> Homo sapien

```

```

<400> 190
gtcgaccaac ttccacata tatttactaa gatgattaag acttacattt tctgcacagg    60
tctgcaaaaa caaaaattat aaactagtc atccaagaac caaagtttgt ataaacaggt    120
tgctataagc ttggtgaaat gaaaatggaa catttcaatc aaacatttcc tatataacaa    180
ttattatatt tacaatttgg ttctgtcaat atttttctta tgtccaccct tttaaaaatt    240
attatttgaa gtaatttatt tacaggaaat gttaatgaga tgtattttct tatagagata    300
tttcttacag aaagctttgt agcagaatat atttgcagct attgactttg taatttagga    360
aaaatgtata ataagataaa atctattaaa tttttctcct ctaaaaactg aaaaaaaaaa    420
aaaaag                                     426

```

```

<210> 191
<211> 550
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(550)
<223> n = A,T,C or G

```

```

<400> 191
cctttttttt tttttttttt tttttttttt tttagttnng gatatgacct ttattgaact    60
tatccaccan agnggaaata atgtctgtac aaaaccaa atgtgttact ataacttctg    120
catcacaaat aaaatccaaa cagtttttta aaaacagtca actcaatcaa aaccactac    180
ttcanaatca atagcttntt tgaagccaca gtaacactta aatatgggta anactcgaat    240
gcanaaaattt ggttggttgg aaagctaatt aaacttccaa cttgctcaaa tagaattaca    300
aaaaggcaaa atttgttttt tcacananat acagnccact ggaatcacca acactggaca    360

```



```

gctgttanag tatttanagt octganataa caaggaatcc aggcntcctt taaacagtct 420
tctgttgnc cttcttccca atcananatt tgtggatgtg tggaatgaca ccnccaccag 480
caattgtagc cttgatgann gaatccaatt cttcatctcc acgaatagca agttgcaagt 540
gacgaggggt 550

```

```

<210> 192
<211> 299
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(299)
<223> n = A,T,C or G

```

```

<400> 192
cctttttttt tttttttgaa attnnaaatt ttattacaaa aactttttat tgctataaga 60
aaaatatgta ttaattctac aaaataacat tcagattatg ttctaattca attattcaat 120
acaatttatt ctcttgtaaa taagagaaac ttatttagaa tataaaatta taacctaatg 180
acaaagctct agtaaattgn gaactacacc tctacaccgg gcttaaattgc atcctgatta 240
atgatttctt catacatgtc acttatttta tccaaaaaag gatttgagtt ctctgcgac 299

```

```

<210> 193
<211> 536
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(536)
<223> n = A,T,C or G

```

```

<400> 193
tttttttttt ttttttttat tctnncaatt tttatttctc ttacatgctc aaagaagcca 60
agcaaatcca ggtatacatg tatatgtttt aattttacag gagagagaaa gaggtataag 120
gcaagaatta actacatttt catttcacta tttctttatg agctctattt tgctgctaag 180
ttcaagtttc aaaaaaatta ttaattcctc tgctatgtta tcttggtcca attcacaaaa 240
taacagggat ttcccatgt gactcaaaag caagaatctt actcctaaat aacataaaca 300
gcaatgatgt tgactactgt cattcattaa cttcgatggg gaagtgcatt aaactgacca 360
ttaaaagaac atttgaacaa ttccaaaagg gagcaaggat aaatctccaa atcaccat 420
agacaaggaa cccagagatg acatacagng tgctcacttc caccactgc cactgagaac 480
actgattgct ctcttcaaac acagagcgaa gaatgggcct catgtcacat ggggca 536

```

```

<210> 194
<211> 566
<212> DNA
<213> Homo sapien

```

```

<220>
<221> misc_feature
<222> (1)...(566)
<223> n = A,T,C or G

```

```

<400> 194
gtcgaactgca ctattaccca gggcagatat tatgagaaac tgtttcttct ctaagggttt 60
atggcagact ttgctttttt aacatgtgag aaatgaattt tttattttgt gatttatgtg 120
atttcttttg ctgagtgaag gaaaggagaa attgttgcta ttgtcagcat cttaaaggta 180

```

67

tttccagtca	aggcaaggct	aagtgccttg	tgatagtatt	aagcaagtca	tgttttgaat	240
ggattacctg	tagtgactca	ttggaatgat	ataattatac	aagtaatgcc	aaaaaccaag	300
tcaaagccta	attaaccaaa	gcactcattt	aaaaatcatc	atgtttggac	ctatctggac	360
ctctcagcac	tgtaaaatag	ttttggtttt	gtggcatatg	aataagctgtt	taacaaatca	420
aagttagctn	tttgcttctc	agcttttttg	ggcaatacaa	gttaagttct	taatggggag	480
acattatcat	ggcatgactt	aagggaacat	tggtttgtga	aggaaaaaca	gattatctaa	540
agccatctct	atgtttctgt	tcagat				566

&lt;210&gt; 195

&lt;211&gt; 217

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 195

gtcgacataa	ataaatggaa	gaaatatcat	gttcatgggc	ttcaaaagtc	aacagtaaag	60
atgccatttt	ttcctaaatt	gatctacagg	ttcagtgcaa	ttccttccga	atctcaccag	120
ggtttttggg	agacataaac	aagttttattc	taaaatttgt	atggaaaggc	acaggtcctg	180
gaataactaa	agcaacctta	caaaaaaaaaa	aaaaaag			217

&lt;210&gt; 196

&lt;211&gt; 391

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(391)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 196

gtcgacggac	agacttagga	gttttgttta	gagcagttaa	catctgaagt	gtctaatagca	60
ttaacttttg	taaggctactg	aatacttaat	atgtgggaaa	cccttttgcg	tggtccttag	120
gcttacaatg	tgcactgaat	cgtttcatgt	aagaatccaa	agtggacacc	attaacaggt	180
ctttgaaata	tgcatgtact	ttatatatttc	tatatattgta	actttgcatg	ttcttgtttt	240
gttatataaa	aaaattgtaa	atgtttaata	tctgactgaa	attaaacgag	cgaagatgag	300
caccacaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaannnaaa	aaaaaaaaann	aaaaaaaaaa	360
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	a			391

&lt;210&gt; 197

&lt;211&gt; 445

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 197

gtcgactgga	tctttatgtc	aatgtgtaca	tagtacaagc	ttttttactg	gaattgaggt	60
ttaaaaccac	acactgccct	tttggtgggtg	tgctgtttgg	gccaaaaatt	gggtgataat	120
gtagtgctac	tttctcagct	caatgcagtt	tctacttttt	cttatgggaa	aatttttcat	180
aaaacctttt	tgacacaaaa	cccaggggtg	ttttttgcaa	tatccttggt	atcctcgtag	240
tgtgccaagt	cagaggcttt	ctcttgccct	tttctgctg	tggtctcagg	cctcccaagg	300
gctgtttgac	tcaacagtct	acatccttcg	ttgtgttttg	gagaatgtgg	gggtgggggt	360
cagagttcaa	ggtgtctgtt	cccttttcct	gtgaactcct	tctagtcctt	atttggggag	420
ggtggctgga	aacagatttt	tgctg				445

&lt;210&gt; 198

&lt;211&gt; 463

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(463)  
<223> n = A,T,C or G

<400> 198  
gtcgacgtca gtattaatac tgagccagac tggcatctac agatttcaga tctatcattt 60  
tattgattct taagcttgta ttaaaaacta ggcaatatca tcatggatac ataggagaag 120  
acacatttac aatcattcat tgggcctttt atctgtctat ccatccatca tcatttgaag 180  
gcctaataata tgccaagtac tcacatggta tgcattgaga cataaaaaag actgtctata 240  
acctcaataa gtattaaaaa tcccattatt acccataagg ttcatcttat ttcattttta 300  
gggaataaaa ttacatgtct atgaaatttc aattttaagc actattgttt ttcatgacca 360  
taatttattt ttaaaaataa attaaagggt aattatatgc atgtatgtat ttctaataat 420  
taaaaatgtg ttcaatccct ganaaaaaaa aaaaaaaaaa aaa 463

<210> 199  
<211> 129  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(129)  
<223> n = A,T,C or G

<400> 199  
gtcgaccggc gggcagctgc agcttctgct gctgaggccg ggattgctac gactgggact 60  
gaagactcag acgatgccct gctgaagatg accatcagcc ancaagagtt tggccgnact 120  
gggcttcct 129

<210> 200  
<211> 523  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature  
<222> (1)...(523)  
<223> n = A,T,C or G

<400> 200  
cctttttttt tttttttttt tttttnaaat ctttatttaa aagtccatgc taataatgng 60  
tttacatttt tacagttaca ttatgataga aactgttgga ttttttaa atctaaaaa 120  
atggcccact gaanaaagga acaattaact ctttaattaa ttccttagga taaataccca 180  
naaatttaac agctagggca gacttntaat acaataccga aagtccttcc aaaaaccaag 240  
nggttgccaa cttatgtccc ttagcattat aacattcttg agccaatagt gtaaaaatac 300  
gctgacaatt ttataggcaa acattactca aggtatotta ctttccactt attactaaag 360  
taattaaccc ctaaacagat gctoctcaac agngggacta catcctggta aacctatcat 420  
aagttgaaac tatcaagttg aaatgcattt agtaccctga taaacctatc ataaagttga 480  
aaatttgtaa attgaaccag tgtaaatcag aggccatntt act 523

<210> 201  
<211> 532  
<212> DNA  
<213> Homo sapien

<220>  
<221> misc\_feature

&lt;222&gt; (1)...(532)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 201

```

cctttttttt tttttttaca cttgagctta gccaaaaggc tgagaagcga ttttttttta      60
aaagctgttc tttaccatgg tttaaagcgt aaaatgcata gctataaaaa caaaacactg      120
agctaattctg attacatcca gcttttgcac tcaatagccc ttgaccctcc agtcataagc      180
aagcctgtca ttgccccagc cctgctatac attctcatta tagtttcggt tcaaatccag      240
tgttacagaa acaaaacacc aagccctcaa tcatgctatg cgtatcttta tgtgtgcatg      300
tcttatgtat gtttaaaata aacattttta aatgttttag gccaggcttg gnggctcatt      360
cagttttagt ttgctttttt tttgccattc tttgttattt tnggaataag taaaacattt      420
aaatacttaa gtcacatctg tataaaaagt atattcatag gaaggaattt aacaatttta      480
ataaaactta ttagcatatc aatgagtttc aagatacacc tgaaactaaa tt              532

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&lt;210&gt; 202

&lt;211&gt; 114

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 202

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ctccttggtg tggctcttctc tgagtgaatg tcacaaggcc ggtgacagga gggggtggag      60
gtgaggggac aaagtagagg ccgaggggtca gtgcctttgg agaaagtcca gaga          114

```

&lt;210&gt; 203

&lt;211&gt; 304

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(304)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 203

```

gtcgaccttt ttttcccaac ttcttgcttt ctattggatt gttagggatt tctgtttttc      60
actttatttc tctctgotta ttgaaagct atacagcatg gttttctttc tttagggatc      120
actcttccac tttacttttt aaagatggat aaattttata catttaaaaa atttaattctg      180
tatttgatc ttcttcctga gtggacctta gcatgttata aatgctcact gaataattct      240
cattgttaat tagagtttgg ttttattntt ttaaanncaa tgtacttaact tattottagn      300
gtaa                                              304

```

&lt;210&gt; 204

&lt;211&gt; 581

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(581)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 204

```

cngcgttggt aggtgagcnn tttcagaagc gcgatcccag gacacgtcgg gaagcaagca      60
tcnntttagc tgcttggaag gaggaccaa gacggctaaa anntcatttg gaaatatctc      120
taaataatttg ttaccatgta taagctgcta aagagaaatt gggcccaaca aaactaattg      180
aataattgag gcagatttgt gtgtatcatc aaattctatc cagaagttga agaattctgaa      240
tttaaagatt gtgtgcattt aataagagga tgacctttca gtttaatttc actatagaag      300

```

```

accatctgga aaatgaatta acaccatta gagatggagc ttgaccctg gattcctcaa 360
aagagctgtc agtctcagaa agtcaaaaag gagaagagag ggacagaaaa tggtctgcag 420
aacaatttga cttgcctcag gatcacttgt gggaacataa gtcaatggaa aatgcagctc 480
cctctcaaga cacagacagt ccaactcagt cagccagcag ttcaaggaac ttggagccac 540
atggaaaaca gccctccttg agagctgcc aagagcatgc t 581

```

```

<210> 205
<211> 409
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(409)
<223> n = A,T,C or G

```

```

<400> 205
gccctgaaga acagtgcctg gatgtggtga cccactggat ccaggaaggt gaagaagggc 60
gtccaaagga tgaccgccac ctccgtggct gtggctacct tccggctgc ccgggctcca 120
atggtttcca caacaacgac acctccact tcctgaaatg ctgcaacacc accaaatgca 180
acgagggccc aatcctggag cttgaaaatc tgccgcagaa tggccgccag tgttacagct 240
gcaaggggaa cagcaccat ggatgctcct ctgaagagac ttccctcatt gactgccggg 300
gccccatgaa tcaatgtctg gtagccacgc gngcgacgtc acagagacnc ggaaaaacca 360
aagctatatn ggtaaagagg ctgtgcaacc cgctctcaat gtgccaaca 409

```

```

<210> 206
<211> 561
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(561)
<223> n = A,T,C or G

```

```

<400> 206
gtntcatggg aaaggacatg tctctcgaag aaaggttata aaccctgaga tatgaggggt 60
tttttgagac atccgagcct gtttcgttcc gggntgggan caggaataac octgacttct 120
gagctttcat aacccagga tcctccagaa aatttgoggc gcgctgaggg aaaaccttgc 180
tgaagctgta cattggaatg cgtttacagt cattgtaatg gaagcaaat acatgaagga 240
aaaactgtta tttgtatccc tgcttattgc acctgacgac tagttgcaga tggttttgtt 300
tacctaagaa aacttgtgat ataatgaaa aaaacacctg ttttcctaga gtcattgggt 360
acaaatatgc ttcgtctaag agctatttgt ccattctcct ggagagtgtt tcaatttcga 420
cccatcagtt gtgaaccact aattattcag atgaataagt gtacagatga ggagcaaatg 480
tttggtttta ttgaaagaaa caaagccata ctttcagaaa agcaagtggg atgtgcattt 540
gatatgcttt ggaagcttca a 561

```

```

<210> 207
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(461)
<223> n = A,T,C or G

```

```

<400> 207

```

```

ggtntttcca gccaatgtga cctttaaaac ctatgaaggt ntnatgcaca gttcgtgtca 60
acaggaaaatg atggatgtca agcaattcat tgataaaactc ctacctccaa ttgattgacg 120
tcactaagag gccctgtgtga gaagtacacc agcatcattg tagtagagtg taaacctttt 180
cccatgccca gtcttcaa at tctaatgtt ttgcagtgtt aaaatgtttt gcaaatacat 240
gccgataaca cagatcaa at aatatctcct catgagaa at ttatgatctt ttaagtttct 300
atacatgtat tcttataaga cgaccagga tctactatat tagaatagat gaagcaggta 360
gcttcttttt tctcaa atgt aattcagcaa aataatacag tactgccacc agatttttta 420
ttacatcatt tgaaaattag cagtatgctt aatgaaaatt t 461

```

```

<210> 208
<211> 296
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(296)
<223> n = A,T,C or G

```

```

<400> 208
gatgaacatc catccnaatt ncgaagagcc tatattatac cctcttcaag aatttgcattg 60
gcatacaat at ctacaggaga aaaaaaggga actcaaaaat gaaacctggg aatattcttc 120
ctctgtgatt tcttttgta atgtgcagtt tctgggtgat gcattggatc tgcagaaatg 180
ggccacagag gtgtgggata tagttgacat taaaccctct gcactttatg acgcactcac 240
tgaggatttt tccgctaagt tcttaagaga caccaagcat gatttcgtgt ttttgg 296

```

```

<210> 209
<211> 282
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> (1)...(282)
<223> n = A,T,C or G

```

```

<400> 209
gcataataaa tgctttgagc ttcttgacta tcatatacct aaagaaagt catcagagaa 60
tnatattcct gacttttnc tgactggcaa aaagcnagct ttatcttgct ttataggatg 120
cttagtttgc cactncactt caaaccaatg ggacagtcnt anatggngng acagtgttna 180
ancncaccaa aaggntncnt ttcentgggg ccancnctgt cntnancctc nctaancat 240
ttgnanaatt ttaancncnn gttaantaaa aaaaaaaaa aa 282

```

```

<210> 210
<211> 1445
<212> DNA
<213> Homo sapiens

```

```

<400> 210
ggcgttgtga ggtgagcttt ttcagaagcg cgatcccagg acacgtcggg aagcaagcat 60
cccagagct gcttggaag aggaccaaag acgtctaaaa agtcatttgg aaatatctct 120
aaatatttgt taccatgtat aagctgctaa agagaaattg ggcccaacaa aactaattga 180
ataattgagg cagatttgtg tgtatcatca aattctatcc agaagttgaa gaatotgaat 240
ttaaagattg tgtgcattta ataagaggat gacctttcag tttaatttca ctatagaaga 300
ccatctggaa aatgaattaa caccattag agatggagct ttgacctgg attcctcaa 360
agagctgtca gtctcagaaa gtcaaaaagg agaagagagg gacagaaaat gttctgcaga 420

```

```

acaatttgac ttgcctcagg atcacttgtg ggaacataag tcaatggaaa atgcagctcc 480
ctctcaagac acagacagtc cactcagtcg agccagcagt tcaaggaaact tggagccaca 540
tggaaaaacag ccctccttga gagctgccaa agagcatgct atgcctaaag atttaaagaa 600
gatgttagaa aataaagtca tagaaacatt accaggtttc cagcatgtta agttatcagt 660
agtghaaacc atcttggtga aagagaactt ccctggagaa aacatagttt caaaaagctt 720
ttcttctcac tctgatctga ttacagggtg ttatgagggg ggcttaaaaa tctgggaatg 780
tacccttgac ctccctggctt atttcacaaa ggccaaaagt aaatttgctg ggaaaaaagt 840
cttggaatctt gggttggtgat caggtttact aggtataact gcattcaagg gaggggtccaa 900
agaaattcac tttcaagatt ataacagtat ggtgattgat gaagtaacct tacctaattg 960
agtagctaac tccactttgg aagatgaaga aaatgatgta aatgagccag atgtgaaaag 1020
atgcaggaaa ccaaaagtta cacaactata taaatgccga tttttttctg gtgagtgggtc 1080
tgagttttgt aagcttgtag taagtagtga aaaacttttt gtaaaatatg atctcattct 1140
cacctcagaa accattttaca acccagatta ttatagtaat ttgcaccaga ctttccttag 1200
actgttaagt aaaaatggac gtgtactttt ggccagcaaa gcacattatt ttgggtgtagg 1260
tggagggtgt catctcttct agaagtttgt agaagaaaga gatgttttta agaccagaat 1320
actcaaaata attgatgaag gattgaagag gttcataatt gaaataactt ttaagtttcc 1380
tggtttaatta acattcactg agtatccaaa atgaaataaa cagaaggacc aaaaaaaaaa 1440
aaaaa 1445

```

```

<210> 211
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<400> 211
aaaaaggga ggaaggagag acagataact ctcagtcatt taaaaaacta caataaaata 60
ttatgaatta tcaatttagat caaagttcct cacagctata tttatatagg taaaaaaaaa 120
ttaaataggc taaatgccca aaaatttaag actggcaaaa tatacttggc taaatactgt 180
gcgtctctat taaataccat gtttcagaag aattattaat gacatgagaa tatgctcaaa 240
atacatattg atattgtgca atacatattg caaagtaaga ttatagaatg atcctagtgc 300
aaaaatgtca catatatatg tatttaaaaa aaaaggcagt taagatttac aacaaaatgt 360
tagtgggtggg acotttctggt aggaatacag attttttttt attcagaagt tttt 414

```

```

<210> 212
<211> 720
<212> DNA
<213> Homo sapiens

```

```

<400> 212
gtcgacgtaa aatagaaaca gaaggggact ttatcaacct gattaacttt ctcaacatgt 60
taaccctaca gttaacatta taatcaatgg tgaatcattg agtactttcc ttctaagatc 120
agaaacagtt caaagtcac tctcaccatt tctattcaac attgtactgg aatcccagcc 180
agtcagtaaa taccaataat aaaaaattaa agtcataaag attgaaaagg atgaagtaaa 240
gctatttcaa ttctatttag aagtatttag aaaccccaaa gaatctacaa aaaactaata 300
gaaaataagt aatatatgaa ggtcttacta tacaagatca acatatcaaa agcagtggta 360
tttaagaaaa gggtgggagac tatttataat aaacagtggg tgaattttgt taatgctttt 420
tctgtatttt ttgaaatgat cttattattt ttctctttgc taaaaatgtg agtaaccttg 480
agttgacttt ctgtgtaaat caaccttgtg tcccaggaaa aaactccaat tgatcatgat 540
gtgttatcct ttttatacat tgctgtattc aatatgctaa tatattttatt ttttgtgtct 600
atttcatgag ggatatcagt atgtaattgt tttttcttgt tatatccttg ttggttttat 660
taatcaacat tatgctaact tcatacaata tattggaaca tgctccctcc ttttattttc 720

```

```

<210> 213
<211> 1114
<212> DNA
<213> Homo sapiens

```

```

<400> 213

```

```

gctcctaaca aagaagatat cttgaaaatt tcagaggatg agcgcatgga gctcagtaag 60
agcttttcgag tatactgtat tatccttgta aaaccctaaag atgtgagtct ttgggctgca 120
gtaaaggaga cttggaccaac aactgtgac aaagcagagt tcttcagttc tgaaaatggt 180
aaagtgtttg agtcaattaa tatggacaca aatgacatgt ggtaaagatg gagaaaagct 240
tacaataacg cctttgataa gtatagagac caatacaact ggttcttcct tgcacgcccc 300
actacgtttg ctatcattga aaacctaaag tttttttgt taaaaaagga tccatcacag 360
cctttctatc taggccacac tataaaatct ggagacctg aatatgtggg tatggaagga 420
ggaattgtct taagtgtaga atcaatgaaa agacttaaca gccttctcaa tatcccagaa 480
aagtgtcctg aacagggagg gatgatttgg aagatatctg aagataaaca gctagcagtt 540
tgcctgaaat atgctggagt atttgcagaa aatgcagaag atgctgatgg aaaagatgta 600
tttaataacca aatctgttgg gctttctatt aaagaggcaa tgacttatca cccaaccag 660
gtagtagaag gctgtgttgc agatatggct gttactttta atggactgac tccaatcag 720
atgcatgtga tgaatgtatgg ggtataccgc cttagggcac ttgggcata tttcaatgat 780
gcattggttt tcttacctcc aaatggttct gacaatgact gagaagtggg agaaaagcgt 840
gaatatgatc tttgtatagg acgtgtgttg tcattatttg tagtagtaac tacatatcca 900
atacagctgt atgtttcttt ttcttttcta atttgggtggc actggtataa ccacacatta 960
aagtcagtag tacattttta aatgaggggtg gtttttttct taaaacaca tgaacattgt 1020
aaatgtgttg gaaagaagtg ttttaagaat aataattttg caaataaact attaataaat 1080
atttatgtg ataaattcta aaaaaaaaaa aaaa 1114

```

&lt;210&gt; 214

&lt;211&gt; 1495

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 214

```

gtaacggatg gtgcgccaac gtgagaggaa acccgtgcgc ggctgcgctt tcctgtcccc 60
aagccgttct agacgcggat gaagtgcaca acaaaacttct ccataagaga gttgttgcaa 120
agttccagtt tataccaaac agtaatcaga ttccattgga agctaaagat tttgagagcc 180
ttttgtacta tatgcaacta acttgatttc aagcttgga acttttaaaa aaaacattaa 240
agcaaaatga aaaatgcttt ctgaaagcag ctcttttttg aaagggtgta tgcttggaag 300
ccattttctg tgctttgatc cactaatgct aaggacacat taggattggt catggaaata 360
gaatgcacca ccatgagcat catcacctac aagctcctaa caaagaagat atcttgaaaa 420
tttcagagga tgagcgcatg gagctcagta agagctttcg agtatactgt attatccttg 480
taaaacccaa agatgtgagt ctttgggctg cagtaaagga gacttgacc aaacactgtg 540
acaaagcaga gttcttcagt tctgaaaatg ttaaagagtt tgagtcaatt aatatggaca 600
caaatgacat gtggttaatg atgagaaaag cttacaaata cgcctttgat aagtatagag 660
accaatacaa ctggttcttc cttgcacgcc ccactacgtt tgctatcatt gaaaacctaa 720
agtatttttt gttaaaaaag gatccatcac agcctttcta tctaggccac actataaaat 780
ctggagacct tgaatatgtg ggtatggaag gaggaattgt cttaaagtga gaatcaatga 840
aaagacttaa cagccttctc aatatcccag aaaagtgtcc tgaacaggga gggatgattt 900
ggaagataat cgaagataaa cagctagcag tttgcctgaa atatgctgga gtatttgcag 960
aaaatgcaga agatgctgat ggaaaagatg tatttaatac caaatctgtt gggctttcta 1020
ttaaagaggc aatgacttat caccctaac aggtagtaga aggtgtgtg tcagatatgg 1080
ctgttacttt taatggactg actocaaatc agatgcatgt gatgatgtat ggggtatacc 1140
gccttagggc atttggcat attttcaatg atgcattggt tttcttacct ccaaatggtt 1200
ctgacaatga ctgagaagtg gtagaaaagc gtgaatatga tctttgtata ggacgtgtgt 1260
tgtcattatt tgtagtagta actacatata caatacagct gtatgtttct ttttcttttc 1320
taatttgggt gcactggtat aaccacccat taaagtcatg agtacatttt taaatgaggg 1380
tggttttttt ctttaaaaca catgaacatt gtaaatgtgt tggaaaaaag tgttttaaga 1440
ataataattt tgcaataaaa ctattaataa atatttatatg tgataaatc taacc 1495

```

&lt;210&gt; 215

&lt;211&gt; 838

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 215



```

ggctgggaag tcagttcggt ctctcctctc ctctcttctt gtttgaacat ggtgcggact 60
aaagcagaca gtgttccagg cacttacaga aaagtggtag ctgctcgagc cccagaaag 120
gtgcttggtt ctccaccto tgccactaat tgcacatcag ttcatcgag gaaagctgaa 180
aataaatatg caggaggga ccccgtttgc gtgcgcccac ctcccaagtg gcaaaaagga 240
attggagaat tcttttaggt gtcccctaaa gattctgaaa aagagaatca gattcctgaa 300
gaggcaggaa gcagtggtt aggaaaagca aagagaaaag catgtccttt gcaacctgat 360
cacacaaatg atgaaaaaga atagaacttt ctcatcctc tttgaataac gtctccttgt 420
ttaccctggt attctagaat gtaaatctac ataatgtgt ttgttccaat tagcttttgt 480
gaacaggcat ttaattaaaa aatttaggtt taaatttaga tgttcaaaag tagttgtgaa 540
attggagaat ttgtaagact aattatggta acttagctta gtattcaata taatgcattg 600
tttggtttct tttaccaaat taagtgtcta gttcttgcta aaatcaagtc attgcattgt 660
gttctaatta caagtatgtt gtatttgaga tttgcttaga ttgtgtact gctgccattt 720
ttattggtgt ttgattattg gaatggtgcc atattgtcac tcttctact tgctttaaaa 780
agcagagtta gatTTTTgca cattaaaaaa ttcagtatta attaaaaaaa aaaaaaaa 838

```

&lt;210&gt; 216

&lt;211&gt; 938

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 216

```

cacctcaggc tgtggctctt tgggcttctt cctaatgcag aagaagttgc ccagcagcaa 60
aatcagggag gaggtgagca cctcggcccc cgccaggatg aacacgtaca tgtagacgtg 120
ggtcgcatcc agtagtttgc ctcccgaagg gggcccagac agcacggcca ccgcctccat 180
cagcagcacc aggccaatgg cactggagaa cttgtaggag atgccaaaga agatgcagaa 240
gaccacgagg ccgccgtagt cggccgccc agagcccgc aggtccgcga ggccgtgaa 300
gaacatggag aagctgaaga gtagacgga gtagggccgc accttcccaa gcccgcacac 360
gaagcccgcg gccggccgcg cgaagatgtc aatgaagccc aggatggtga gcaggaaggc 420
ggccttggtg tggggcacgc ccaggctcct ggctagctc accacgaaca cgggcgggac 480
gaagagcccc agcaccatga ccgaggcggc cagcgctaa agcacaaaagc cgcggtccc 540
gaagacgctc aggtctagca ggcgcgggga gggctcgggc ggccccgagc ccggtgggc 600
cgtgaccacc aggggcctca tgagtgcggc acacacgcag cagttgagca gcaggccgcc 660
caggatgagg aagccgcccc gccagccgta gcggtcctgc agcagctgcc ccagcgggct 720
cagggcacac aggaagacag ggctacctgc tgccgccagc ccgttgcca tggggcgccg 780
cttgctgaag tagcggttca gcatgatgag cgagggtgg aagttgagt ccaaaccaca 840
ccccgtgatg accccagtg tgaggtagac ctggatgatg ctccggcaaa aggacgcagc 900
caccatgccc agcgacgcaa agagaccccc cacaagca 938

```

&lt;210&gt; 217

&lt;211&gt; 1982

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

```

ggcgagaggc gggctgaggc ggccagcgg cggcaggtag ggcggaacca accctcctgg 60
ccatgggagg ggccgtggtg gacgagggcc ccacaggcgt caaggcccct gacggcggt 120
ggggctgggc cgtgctcttc ggctgtttcg tcatcactgg cttctcctac gccttccca 180
aggccgtcag tgtcttcttc aaggagctca tacaggagtt tgggatcggc tacagcgaca 240
cagcctggat ctctccatc ctgctggcca tgctctacgg gacaggtcgg ctctgcagt 300
tgtgcgtgaa ccgctttggc tgccggccc tcatgcttgt ggggggtctc tttgcgtgc 360
tgggcatggt ggctgcgtcc ttttgccgga gcatcatcca ggtctacctc accactggg 420
tcatcacggg gttgggtttg gcaactcaact tccagccctc gctcatcatg ctgaaccgct 480
acttcagcaa gcggcgcccc atggccaacg ggctggcggc agcaggtagc cctgtcttcc 540
tgtgtgccct gagcccgtg gggcagctgc tgcaaggacc ctacggctgg cggggcggt 600
tctcatcct gggcgccctg ctgctcaact gctgcgtgtg tgccgactc atgaggcccc 660
tgggtgtcac gggccagccg ggctcggggc cgcccgagcc ctcccgccg ctgctagacc 720
tgagcgtctt ccgggacgcg gcttttgtc tttacgcgt ggccgctcg gtcaggtgc 780
tggggctctt cgtcccgcgc gtgttcgtgg tgagctacgc caaggacctg ggcgtgccc 840

```

```

acaccaaggc cgccttcctg ctcaccatcc tgggcttcat tgacatcttc gcgcggccgg 900
ccgcgggctt cgtggcgggg cttgggaagg tgcggcccta ctccgtctac ctcttcagct 960
tctccatggt cttcaacggc ctgcgggacc tggcgggctc tacggcgggc gactacggcg 1020
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tcgaggtgct catggccato gtgggcaccc acaagtcttc cagtgccatt ggcttggtgc 1140
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cgaccacagt ctacatgtac gtgttcattc tggcgggggc cgaggtgctc acctcctccc 1260
tgattttgct gctgggcaac ttcttctgca ttaggaagaa gcccagaag ccacagcctg 1320
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aagccggcaa cgcttgctat ttattttaca aactggaactg gctcaggcag ggccacggct 1560
gggctccagc tgcggccca gcggtatcgtc gcccgatcag tgttttgagg ggaagggtgg 1620
cggggtggga accgtgtcat tccagagtgg atctgcggtg aagccaagcc gcaaggttac 1680
aaggcatcct caccaggggc cccgcctgct gctcccagggt ggctgcggc cactgctatg 1740
ctcaaggacc tggaaaccca tgcttcgaga caactgact ttaatggag ggtgggtggg 1800
ccgcagacag gctggcaggg caggtgctgc gtggggccct ctccagcccg tctaccctg 1860
ggctcacatg gggcctgtgc ccaccctct tgagtgtctt ggggacagct cttccaccg 1920
ctggaagatg gaaataaacc tgcgtgtggg tggagtgttc tcgtgccgaa ttcaaaaagc 1980
tt
1982

```

&lt;210&gt; 218

&lt;211&gt; 592

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

```

aggtctcatg ggaaagggtca tgtctctcga agaaagggtta taaaccctga gatatgaggg 60
ttgggcgaga catccgagcc tgtttcggtc cgtgttgagg ccaggaataa ccctgacttc 120
tgagctttca taaccccagg atcctccaga aaatttgagg cgcgctgagg gaaaaccttg 180
ctgaagctgt acattggaat gcgtttacag tcattgtaat ggaagcaaaa tacatgaagg 240
aaaaactggt atttgtatcc ctgcttattg cacctgacga ctagtgcag atggttttgt 300
ttacctaaaga aaacttgtga tataaatgaa aaaaacacct gttttcctag agtcatttgt 360
tacaaatatg cttcgtctaa gagctatttg tccattctcc tggagagtgt ttcaatttcg 420
acccatcagt tgtgaaccac taattattca gatgaataag tgtacagatg aggagcaaat 480
gtttggtttt attgaaagaa acaaagccat actttcagaa aagcaagtgg gatgtgcatt 540
tgatatgctt tggaagcttc aaaagcagaa gaccagcctg ttaaaaaatg ct 592

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&lt;210&gt; 219

&lt;211&gt; 650

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 219

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ctgctaccca tccctttatg aagaggtttt gggagaggag caagaggagg tctgagcacc 60
agccgcagcc ggggccaaag tttgtggggt caggggccca tccagcagct gccctgccc 120
atgtgacatg aggccatttc ttgcctctgt gtttgaagag agcaatcagt gttctcagt 180
gcagtgggtg gaagtgaagc cactgtatgt catctctggg ttccttgtct attgggtgat 240
ttggagattt atccttgctc ccttttgga ttgttcaaat gttcttttaa tggtcagttt 300
aatgaacttc accatcgaag ttaattgaat acagtagtca cacatatgct tgtttatgtt 360
atttaggagt aagattcttg cttttgagtc acatggggaa atccctgtta ttttgtgaat 420
tgggacaaga taacatagca gaggaattaa taattttttt gaaacttgaa cttagcagca 480
aaatagagct cataaagaaa tagtgaaatg aaaatgtagt taattcttgc cttatacctc 540
tttctctctc ctgtaaaatt aaaacatata catgtatacc tggatttgct tggcttcttt 600
gagcatgtaa gagaataaaa aattgaaaga ataaaaaaa aaaaaaaaaa 650

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&lt;210&gt; 220

&lt;211&gt; 782

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 220

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ggtgaatcca gccaatgtga cctttaaaac ctatgaaggt atgatgcaca gttcgtgtca 60
acaggaaatg atggatgtca agcaattcat tgataaactc ctacctccaa ttgattgacg 120
tcactaagag gccttgtgtg gaagtacacc agcatcattg tagtagagtg taaacctttt 180
cccatgccca gtcttcaa atctaatggt ttgcagtgtt aaaatgtttt gcaaatacat 240
gccgataaca cagatcaaat aatatctcct catgagaaat ttatgatcct ttaagtttct 300
atacatgtat tcttataaga cgaccagga tctactatat tagaatagat gaagcaggta 360
gcttcttttt tctcaa atgt aattcagcaa aataatacag tactgccacc agatttttta 420
ttacatcatt tgaaaattag cagtatgctt aatgaaaatt tgttcaggta taaatgagca 480
gttaagatat aaacaattta tgcattgctt gacttagtct atggatttat tccaaaattg 540
cttagtcacc atgcagtgtc tgtattttta tatatgtgtt catatataca taatgattat 600
aatacataat aagaatgagg tggattaca ttattcctaa taataggat aatgctgttt 660
attgtcaaga aaaagtaaaa tcgttctctt caattaatgg cccttttatt ttgggaccag 720
gcttttattc tccctgatat tatttctatt taatactctt ttctotcaaa aaaaaaaaaa 780
aa 782

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&lt;210&gt; 221

&lt;211&gt; 2417

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 221

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cttccttccg cttgcgtgtg gagctgaggg ggtgtatgtg cggcaataac atgtcaaccc 60
cgctgcccg ccatgtgcc gccgccgga aggccacgc tcggttgatt ttcctgcatg 120
gattgggaga tactgggcac ggaatggcag aagcctttgc aggtatcaga agttcacata 180
tcaaatatat ctgcccgcac gcgcctgtta ggcctgttac attaaatag aacgtggcta 240
tgcccttcag gtttgatatt attgggcttt caccagattc acaggaggat gaatctggga 300
ttaaacaggc agcagaaaat ataaaagctt tgattgatca agaagtgaag aatggcattc 360
cttctaacag aattattttg ggagggtttt ctccaggagg agctttatct ttatatactg 420
cccttaccac acagcagaaa ctggcagggt tccactgcact cagttgctgg cttccacttc 480
gggcttcctt tccacagggt cctatcgggt gtgctaatag agatatttct attctccagt 540
gccacgggga ttgtgacct ttggttccc tgatgtttgg ttctcttacg gtggaaaaac 600
taaaaacatt ggtgaatcca gccaatgtga cctttaaaac ctatgaaggt atgatgcaca 660
gttcgtgtca acaggaaatg atggatgtca agcaattcat tgataaactc ctacctccaa 720
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taaatgagca gttaagatat aaacaattta tgcattgctt gacttagtct atggatttat 1140
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cttatttcga attactgtac cttatccaaa tttaacacta gctatttaga tcttcaacc 1620
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tcatattcta gtatgttctg aaatatcttt aagactgatc ttaaaaacta acttctaaga 1740
tgatttcac ttctcatagt atagagttta cttgttacac gttgaaacca actactgtag 1800
aagatgagga atctattgta attttttgct ttattttcat ctgccagtgg acttatttga 1860
attttcaact tagtcaaat attttttgta ttagtttttg atgcagacat aaaaatagca 1920
atcattttta attgtcaaaa tttccagatt actggtaaaa attatttgaa aacaacttta 1980

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tgggtaataa aggctagtc gaacctata ccataaagt tagttaccat acagattaat 2040
atgtagcaaa aatgtatgct tgatatctt caactgtgtt aatttttctg ctgtattcca 2100
gctgacaaaa acaatattaa gaatgcatct ttataaatgg gtgctaattg ataatggaaa 2160
taatttagta atggactata caggatgtta ataatgaagc catatgttta tgtctggatt 2220
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ttatttcact tctacaaatc agcaagatat tatttatggc aagaaatatt ccattgaaat 2340
attgtgctgt aacatgggaa agtgtaaagt tttttcatgg tttctatcaa tgtgaaataa 2400
aatttaattc tgaaaaa 2417

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&lt;210&gt; 222

&lt;211&gt; 1466

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 222

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ggtggtgggg ctcttcagct gcccacactt tcagattgcg aagagcgccg ctgagaatct 60
gaagaataat catccatcca aatttgaaga tcctataatta gttcctcttc aagaatttgc 120
atggcatcaa tatctacagg agaaaaaaag ggaactcaaa aatgaaacct gggaatattc 180
ttcctctgtg atttcttttg ttaatggtca gtttctgggt gatgcattgg atctgcagaa 240
atggggccac gaggtgtggg atatagttga cattaaaccc tctgcacttt atgacgcact 300
cactgaggat ttttccgcta agttcttaag agacaccaag catgatttcg tgtttttgga 360
catttgtatt gattcttctc caattggaag attgattttt gagctatact gtgatgtgtg 420
tcccaaaaca tgtaaaaatt ttcaggctct gtgcacagga aaagcagggt tttctcaacg 480
tggcataaga ctacattaca aaaattccat ttttcatcga atagtacaga atggctggat 540
acaaggaggg gatatagtgat atggaaaagg agataatgga gagtcgattt atggtccaac 600
atttgaagga caggctccca tgcagatgga actgttggga atggcatcaa aattatccag 660
gatacagggg caatcatgac aaagagggaa taggaacaga gtcagaaatt taaggaagaa 720
agccacatgc ttcaatatgc aagattttca acatgcaaga gggagctttt tgaaactaga 780
aaatctactt tctttctaaa gacacatctt ctaaacattt aggaaaacta atgtcaccct 840
atataacaaa gagagtttct ctgaaagaaa ataatgttta ttcaggaata gggatttgct 900
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atatttctct cataagggtc caatggcctt tatgcaagggt tgtggctttt gtagttcttt 1140
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ctctatttgt cagcattttt taaacatgac tacattttga ttctgaccac tattacacta 1260
attttatatt agaatgaaca atagaagtgt caaggtgatt ataagaataa agagaataaa 1320
gagcagagta acatcagcac tgatagttaa tgtaccctag aaagacatgc tcataggata 1380
cagttgaccc ttgagcaaca tggatttgaa atgtacgagt ccacttaaag aaacttacag 1440
tcagtttctt taaaaaaaaa aaaaaa 1466

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